

IB ACIO QUANTS PYQS

ALL YEARS & ALL SHIFTS

2026/27 BATCH

BY VYASA IAS



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Q.1 If $128 : y :: y : 8$, find the positive value of y .

Ans ✓ 1. 32

✗ 2. 33

✗ 3. 36

✗ 4. 28

Q.2 Five consecutive prime numbers A, B, C, D and E are in ascending order. If product of $A \times C \times E = 1729$ and product of $B \times C \times D = 2431$, find the next prime number to E.

Ans ✓ 1. 23

✗ 2. 19

✗ 3. 29

✗ 4. 31

Q.3	A bus travelling at 40 km/hr completes a journey in 18 hours. At what speed will it have to cover the same distance in 16 hours?																
Ans	✓ 1. 45 km/hr ✗ 2. 48 km/hr ✗ 3. 46 km/hr ✗ 4. 47 km/hr																
Q.4	The sum of the present ages of A, B and C is 283 years. 17 years ago from now, the ratio of their ages was 10 : 8 : 11. What is the present age of C (in years)?																
Ans	✓ 1. 105 ✗ 2. 106 ✗ 3. 108 ✗ 4. 104																
Q.5	The cost price of an article is ₹440, and its marked price is ₹660. If the seller allows a 20% discount on the marked price, what will be his profit percentage?																
Ans	✗ 1. 18% ✗ 2. 21% ✓ 3. 20% ✗ 4. 17%																
Q.6	A student takes 4 subjects in a year, the weights and marks for the first semester is as below. <table border="1"> <thead> <tr> <th>Subject</th><th>Weights</th><th>Marks</th></tr> </thead> <tbody> <tr> <td>Math</td><td>0.3</td><td>85</td></tr> <tr> <td>History</td><td>0.2</td><td>90</td></tr> <tr> <td>Chemistry</td><td>0.4</td><td>78</td></tr> <tr> <td>English</td><td>0.1</td><td>95</td></tr> </tbody> </table> In the second semester, the student scored 5 more marks each in Math and Chemistry and 5 less marks each in History and English, the weights remaining the same. What is the overall average for the year?		Subject	Weights	Marks	Math	0.3	85	History	0.2	90	Chemistry	0.4	78	English	0.1	95
Subject	Weights	Marks															
Math	0.3	85															
History	0.2	90															
Chemistry	0.4	78															
English	0.1	95															
Ans	✓ 1. 85.2 ✗ 2. 86.9 ✗ 3. 86.3 ✗ 4. 85.7																

Q.7	A pipe can fill a tank in 24 hours. Another pipe can empty the filled tank in 28 hours. If both the pipes are opened simultaneously, then the time (in hours) in which the tank will be filled two-third is:
Ans	✓ 1. 112
	✗ 2. 336
	✗ 3. 448
	✗ 4. 224
Q.8	In a mixture of 120 litres of milk and water, the ratio of milk to water is 2 : 3. From this mixture, 40 litres is taken out and replaced with milk. This process is continued one more time. Find the quantity of milk (in litres) in the final mixture.
Ans	✓ 1. 88
	✗ 2. 78
	✗ 3. 68
	✗ 4. 58
Q.9	A company offers the following different types of discount schemes. Two successive discounts of 40% and 30% on cash payment. Buy 5 get 3 free. Buy 8 get 5 free. Buy 4 get 6. What is the average discount (rounded to two decimal places) of all the four schemes?
Ans	✓ 1. 41.82%
	✗ 2. 39.75%
	✗ 3. 36.89%
	✗ 4. 45.36%
Q.10	David gets a 5% increase in his sale amount in the first year and a 25% increase in the second year, and with that his present sale is ₹1,68,000. What was his sale (in ₹) two years ago?
Ans	✓ 1. 1,28,000
	✗ 2. 1,60,000
	✗ 3. 1,08,000
	✗ 4. 1,34,400

Q.11	A man buys 9 identical articles for a total of ₹18. If he sells each of them for ₹2.9, his profit percentage will be %.
Ans	✗ 1. 31.03
	✗ 2. 46
	✗ 3. 32.03
	✓ 4. 45

Q.12	The cost of 3 pens and 7 pencils is ₹84 and the cost of 8 pens and 3 pencils is ₹177. The cost of 3 pens and 3 pencils is:
Ans	✓ 1. ₹72
	✗ 2. ₹77
	✗ 3. ₹70
	✗ 4. ₹75

Q.13	To do a certain work, A and B work on alternate days with A beginning the work on the first day. B alone can complete the same work in 84 days. If the work gets completed in $29\frac{2}{5}$ days, then how much time (in days) would A alone take to complete $2\frac{9}{10}$ times of the original work?
Ans	✗ 1. 56.3
	✗ 2. 44.8
	✗ 3. 42.7
	✓ 4. 52.5

Q.14	Simplify the given expression. $\left(\frac{27}{216}\right)^{\frac{2}{3}} \times \left(\frac{512}{729}\right)^{-\left(\frac{2}{3}\right)} \div \left(\frac{2}{7}\right)^{-2}$
Ans	✓ 1. $\frac{81}{2136}$
	✗ 2. $\frac{82}{2137}$
	✗ 3. $\frac{80}{2130}$
	✗ 4. $\frac{84}{2135}$

Q.15	Boat A starts from point P and travels downstream to point Q at a speed of 10 km/hr in still water. The stream speed is 3 km/hr. After 2 hours, Boat B starts from the same point P, going downstream toward Q at 12 km/hr in still water. Once Boat A reaches point Q, it immediately turns back and starts returning upstream. Boat B continues downstream. If both boats meet 6 hours after Boat B started, and the meeting happens during Boat A's return journey, then the distance between P and Q is:
Ans	✗ 1. 93.6 km
	✓ 2. 94.9 km
	✗ 3. 94.6 km
	✗ 4. 93.9 km
Q.16	The number 706705 is divisible by which of the following?
Ans	✗ 1. 10
	✗ 2. 15
	✗ 3. 13
	✓ 4. 5
Q.17	A person borrows ₹63,500 at 10% compound interest per year, compounded annually. At the end of every year, he pays ₹5,800 as part payment. How much does he still owe after two such instalments?
Ans	✗ 1. ₹64,692
	✗ 2. ₹64,765
	✓ 3. ₹64,655
	✗ 4. ₹64,775
Q.18	A man has invested ₹54,500 at a rate of 12% per annum simple interest for 2 years. Find the amount (in ₹) that he will receive after 2 years.
Ans	✗ 1. 13,080
	✓ 2. 67,580
	✗ 3. 14,080
	✗ 4. 68,580

Q.19 An item is initially sold at ₹500. Its price is first increased by 20% due to a surge in demand. After that, a 10% festive markdown is applied on the increased price. Following this, a 5% seasonal discount is applied on the new reduced price. However, before final billing, a service charge of 2% is added on the discounted price, and GST at 12% is levied on the amount after adding the service charge. What is the net change in the final billed price (after all taxes and charges) compared to the original price of ₹500 (correct to 2 decimal place)?

Ans ✓ 1. ₹86.05

✗ 2. ₹76.05

✗ 3. ₹76.75

✗ 4. ₹86.25

Q.20 Solve the equations to find the value of x , y and z .

$$2x + y + 4z = 8$$

$$2x + y + 3z = 14$$

$$2x + 3y + 4z = 12$$

Ans ✗ 1. $x = 15, y = -2, z = -6$

✗ 2. $x = 5, y = 2, z = -6$

✓ 3. $x = 15, y = 2, z = -6$

✗ 4. $x = -15, y = 2, z = -6$

Q.1 What is the cube root of $(5\sqrt{5} \times 11\sqrt{11}) - (17\sqrt{17}) - (3\sqrt{5} \times \sqrt{11} \times \sqrt{17})(\sqrt{5} \times \sqrt{11} - \sqrt{17})$?

Ans  1. $(\sqrt{17} - \sqrt{5})$

 2. $(\sqrt{17} - \sqrt{11})$

 3. $(\sqrt{55} - \sqrt{11})$

 4. $\sqrt{55} - \sqrt{17}$

Q.2 In a race, an athlete covers a distance of 336 metres in 112 seconds in the first lap. He covers the second lap of the same length in 56 seconds. What is the average speed (in m/s) of the athlete?

Ans  1. 1

 2. 5

 3. 4

 4. 9

Q.3 Three friends, A, B and C, are trying to estimate the average weight of a wooden table. In A's opinion, the weight of the table is greater than 90 kg but less than 97 kg. B's estimate is different. He thinks that the table's weight is greater than 85 kg but less than 95 kg. In C's view, the table cannot weigh more than 93 kg. If all of them are correct in their estimation, what is the average weight (in kg) of the different probable weights of the wooden table?

Ans ☒ 1. 91
☒ 2. 92
☐ 3. 90
☐ 4. 93

Q.4 Mr. X spends 25% income on house rent. 16% on food and medicines, three-fifth of house rent on education of children, 12% on future investment, 12% on travelling and entertainment, three-fourth of food and medicines on long term savings and remaining for miscellaneous expenditure. If the difference between education of children and travelling and entertainment is ₹4,260, then what is the miscellaneous expenditure?

Ans ☒ 1. ₹11,360
☐ 2. ₹10,850
☐ 3. ₹8,950
☐ 4. ₹12,500

Q.5 Three types of oils are mixed: 100 litres of A, 85 litres of B and 65 litres of C. If the cost of the oils A, B and C per one litre are in the ratio 14 : 13 : 11 and the cost of one litre of mixed oil is ₹64.40, then what is the total cost of 3 tins of 10 litres each of three oils?

Ans ☐ 1. ₹1,750
☐ 2. ₹1,845
☐ 3. ₹2,100
☒ 4. ₹1,900

Q.6

If $a^x + y \cdot a^{x-y} = a^{50}$, $a \neq 1$ and $b^{2y+x} \cdot b^{\frac{(y-3x)}{3}} = (b^7)^4$, $b \neq 1$, for what value of x , $c^3 = x^{\frac{3}{2}} + y^3 + 7^3 + 1$?

Ans

- ☐ 1. 17
- ☐ 2. 19
- ☐ 3. 15
- ☒ 4. 13

Q.7

8 times the present age of Anjali is 14 years more than 2 times the present age of Kamal, and 8 times the present age of Kamal is 8 years less than 8 times the present age of Anjali. The sum of the present ages (in years) of Anjali and Kamal is:

Ans

- ☐ 1. 2
- ☒ 2. 3
- ☐ 3. 7
- ☐ 4. 1

Q.8

Kiran starts business with ₹41,000 and after 7 months, Zarina joins with Kiran as her partner. After a year, the profit is divided in the ratio 8 : 5. What is Zarina's contribution in the capital?

Ans

- ☒ 1. ₹61,500
- ☐ 2. ₹59,535
- ☐ 3. ₹60,670
- ☐ 4. ₹61,880

Q.9

The cost of 3 pens and 9 pencils is ₹180 and the cost of 3 pens and 7 pencils ₹150. The cost of 8 pens and 4 pencils is:

Ans

- ☐ 1. ₹175
- ☐ 2. ₹179
- ☒ 3. ₹180
- ☐ 4. ₹178

Q.10

If $3.6 : 1.2 :: 1.2 : y$, then the value of y is:

Ans

- ☐ 1. 0.60
- ☒ 2. 0.40
- ☐ 3. 0.90
- ☐ 4. 0.80

Q.11 8 men can dig a well 29 feet deep in 14 days. How many men can dig a well 58 feet deep in 2 days?

- Ans ☐ 1. 110
☐ 2. 115
☒ 3. 112
☐ 4. 109

Q.12 A trader gives 15% discount on the marked price of an article and gives 2 articles free for buying 16 articles and gains 36% in the entire transaction. Assuming a customer pays for 16 articles, the marked price of an article is what percentage more than its cost price?

- Ans ☐ 1. 73%
☐ 2. 70%
☒ 3. 80%
☐ 4. 75%

Q.13 A toy is marked at ₹295 with an initial discount of 20%. What further percentage discount should be given so that the final selling price becomes ₹118?

- Ans ☐ 1. 55%
☐ 2. 52%
☒ 3. 50%
☐ 4. 48%

Q.14 Manjit gets a 5% increase in his sale amount in the first year and a 25% increase in the second year, and with that his present sale is ₹1,59,600. What was his sale (in ₹) two years ago?

- Ans ☐ 1. 1,27,680
☐ 2. 1,01,600
☒ 3. 1,21,600
☐ 4. 1,52,000

Q.15 I bought two trousers for ₹1,200. I sold the first one at a loss of 13% and the second at a gain of 12%. If, on the whole I made neither a loss nor a gain, find the cost price (in ₹) of the first trouser.

Ans ☒ 1. 576
☐ 2. 560
☐ 3. 596
☐ 4. 600

Q.16 A man has invested ₹54,500 at a rate of 8% per annum simple interest for 2 years. Find the amount (in ₹) that he will receive after 2 years.

Ans ☐ 1. 8,720
☐ 2. 64,220
☒ 3. 63,220
☐ 4. 9,720

Q.17 A and B begin a job. On the 8th day, both of them stop, and another team, D and E, complete the rest of the work in 4 days. D and E work at the same rate as A and B together. In how many days can A and B complete 80% of the job?

Ans ☐ 1. 10 days
☒ 2. 9.6 days
☐ 3. 11.6 days
☐ 4. 12 days

Q.18 Runner A can run 100 metres in 10 seconds, while Runner B runs the same distance in 12 seconds. In a 300-metre race, A gives B a head start of 20 metres and delays his own start by 3 seconds. If both runners maintain constant speeds, how much time will B take to cover the total distances covered by A and B from the moment B starts running until the moment A finishes the race?

Ans ☐ 1. 1 minute 19 seconds
☐ 2. 2 minutes 19 seconds
☐ 3. 2 minutes 9 seconds
☒ 4. 1 minute 9 seconds

Q.19 The product of two numbers is 19845 and their H.C.F is 63. Find their L.C.M.

Ans ☒ 1. 323

☒ 2. 310

☒ 3. 311

☒ 4. 315

Q.20 A sum of ₹10,00,000 is invested in a bank at 19% interest per annum compounded annually. On maturity, the amount payable becomes ₹16,85,159. Find the time period of the investment.

Ans ☒ 1. 2.5 years

☒ 2. 3.5 years

☒ 3. 1 year

☒ 4. 3 years

Q.1	A school has less than 2000 students. If the students are divided in to groups of 9 or 12 or 20 exactly three are always left, but when divided into groups of 21, none are left out. Find the maximum number of groups that can be formed with 10 students in a group.
Ans	✓ 1. 90
	✗ 2. 111
	✗ 3. 102
	✗ 4. 125
Q.2	What will be the difference in population 3 years ago and 2 years ago of a town, whose current population is 3,70,000 and which is increasing at a rate of 25% every year?
Ans	✗ 1. 47,710
	✗ 2. 46,810
	✗ 3. 46,610
	✓ 4. 47,360
Q.3	The number of prime numbers lying between 351 and 358 is:
Ans	✗ 1. 3
	✗ 2. 4
	✗ 3. 2
	✓ 4. 1
Q.4	A trader bought 46 plates for ₹46. During transit, 23 plates broke. He sold the remaining plates at ₹3.20 each. Find the trader's profit.
Ans	✗ 1. ₹28.40
	✗ 2. ₹35.30
	✗ 3. ₹20.90
	✓ 4. ₹27.60

Q. 5	A trader gives 12% discount on the marked price of an article and gives 3 articles free for buying 18 articles and gains 32% in the entire transaction. Assuming a customer pays for 18 articles, the marked price of an article is what percentage more than its cost price?
Ans	☒ 1. 70%
	☒ 2. 67%
	☒ 3. 75%
	☒ 4. 81%
Q.6	A bus travelling at 65 km/hr completes a journey in 10 hours. At what speed will it have to cover the same distance in 5 hours?
Ans	☒ 1. 124 km/hr
	☒ 2. 130 km/hr
	☒ 3. 131 km/hr
	☒ 4. 121 km/hr
Q.7	The average marks of Gopal in 12 papers is 83. If he got the same highest marks in two papers and the same lowest marks in three papers, excluding the highest and lowest marks, the average of the remaining papers is 89, and the difference between the highest and the lowest marks is 39. If the highest is 2 marks less and lowest is 6 marks more, then the average of 12 papers is:
Ans	☒ 1. $84\frac{2}{3}$
	☒ 2. $84\frac{1}{3}$
	☒ 3. $84\frac{5}{6}$
	☒ 4. $84\frac{1}{6}$
Q.8	A pipe can fill a tank in 22 hours. Another pipe can empty the filled tank in 33 hours. If both the pipes are opened simultaneously, then the time (in hours) in which the tank will be filled two-third is:
Ans	☒ 1. 176
	☒ 2. 88
	☒ 3. 132
	☒ 4. 44

Q.9	In an organisation, the ratio of men to women is 7 : 4. 5% of women and 12% of men are in executive category. Of the executives, 40% and 25%, respectively, of women and men are professionally qualified. Find the percentage (rounded off to one decimal place) of non-professional women executives in the total number of employees in the organisation.
Ans	✓ 1. 1.1%
	✗ 2. 2.8%
	✗ 3. 3.3%
	✗ 4. 2.2%
Q.10	If successive discounts of 10.5% and 20.25% are applied to a marked price of ₹1,00,000, what is the final selling price?
Ans	✓ 1. ₹71,376.25
	✗ 2. ₹74,376.25
	✗ 3. ₹72,376.25
	✗ 4. ₹73,376.25
Q.11	A batsman in his 10th innings makes a score of 97 runs and increases his average by 2 runs. What is his average (in runs) after the 10th innings?
Ans	✗ 1. 97
	✗ 2. 82
	✗ 3. 77
	✓ 4. 79
Q.12	If $1.8 : 0.3 :: 0.3 : x$, find the value of x.
Ans	✗ 1. 0.002
	✗ 2. 1.182
	✗ 3. 0.86
	✓ 4. 0.05

Q.13	Simplify the given expression. $\left(\frac{64}{8}\right)^{\frac{2}{3}} \times \left(\frac{343}{216}\right)^{-\left(\frac{2}{3}\right)} \div \left(\frac{5}{7}\right)^{-2}$
Ans	☒ 1. $\frac{3601}{2402}$
	☒ 2. $\frac{3603}{2400}$
	☒ 3. $\frac{3600}{2401}$
	☒ 4. $\frac{3599}{2404}$
Q.14	Kirti starts business with ₹89,000 and after 3 months, Vaishnavi joins with Kirti as her partner. After a year, the profit is divided in the ratio 4 : 3. What is Vaishnavi's contribution in the capital?
Ans	☒ 1. ₹88,205
	☒ 2. ₹90,655
	☒ 3. ₹89,000
	☒ 4. ₹88,265
Q.15	A man has invested ₹54,000 at a rate of 10% per annum simple interest for 4 years. Find the amount (in ₹) that he will receive after 4 years.
Ans	☒ 1. 22,600
	☒ 2. 21,600
	☒ 3. 75,600
	☒ 4. 76,600
Q.16	Two years ago from now, the average age of A, B and C was 23 years. After 2 years from now, the average age of A and C will be 14 years. What will be the age (in years) of B, after 7 years from now?
Ans	☒ 1. 55
	☒ 2. 53
	☒ 3. 63
	☒ 4. 58

Q.17 The cost of 5 pens and 5 pencils is ₹95 and the cost of 2 pens and 7 pencils is ₹43. The cost of 9 pens and 4 pencils is:

Ans ☐ 1. ₹168

☐ 2. ₹169

☒ 3. ₹166

☐ 4. ₹163

Q.18 A man receives ₹2,750 per month as salary. He saves 68% of his salary every month. His expenditure per month is:

Ans ☐ 1. ₹839

☐ 2. ₹791

☐ 3. ₹836

☒ 4. ₹880

Q.19 The ratio of time taken by pipes A to B to fill an empty water tank is 9 : 4; pipe C takes one hour to empty the full tank; when all three pipes are opened at a time, they take 1.5 hours to fill the tank. Pipes A and B are opened at the same time. If after 24 minutes, pipe C is opened, what is the time (in minutes) taken by all the 3 pipes to fill the remaining tank?

Ans ☐ 1. 35

☐ 2. 42

☐ 3. 27

☒ 4. 30

Q.20 A boat's speed in still water is 5 times the speed of the stream. It takes 5 hours for the boat to cover 36 km downstream and half the distance upstream. Find the speed (in km/hr) of the boat in still water.

Ans ☐ 1. 15

☐ 2. 2.1

☐ 3. 3

☒ 4. 10.5

Q.1 I bought two bicycles for ₹1,200. I sold the first one at a loss of 13% and the second at a gain of 11%. If, on the whole I made neither a loss nor a gain, find the cost price (in ₹) of the first bicycle.

Ans ✓ 1. 550

✗ 2. 574

✗ 3. 570

✗ 4. 534

Q.2 8 years ago, the age of father was 27 years more than twice his son's age. After how many years, from now, will he be twice his son's age?

Ans ✗ 1. 16

✓ 2. 19

✗ 3. 18

✗ 4. 15

Q.3 A milkman prepared water and milk mixture in a can with the water to milk ratio 5 : 7. He accidentally spilled 18 litres of the mixture. He then filled the can with water equal to the spilled mixture. This made the water to milk ratio 9 : 7. How much milk (in litres) did the can initially have?

Ans ✗ 1. 48

✓ 2. 42

✗ 3. 54

✗ 4. 40

Q.4 A man has invested ₹54,000 at a rate of 10% per annum simple interest for 2 years. Find the amount (in ₹) that he will receive after 2 years.

Ans ✗ 1. 10,800

✗ 2. 11,800

✗ 3. 65,800

✓ 4. 64,800

Q. 5	Keshav gets a 5% increase in his sale amount in the first year and a 20% increase in the second year, and with that his present sale is ₹2,52,000. What was his sale (in ₹) two years ago?
Ans	✗ 1. 1,80,000
	✗ 2. 2,10,000
	✓ 3. 2,00,000
	✗ 4. 2,40,000
Q. 6	A sum of money triples itself at a certain rate of compound interest, compounded annually in 16 years. In how many years will it amount to 81 times of itself?
Ans	✓ 1. 64 years
	✗ 2. 56 years
	✗ 3. 67 years
	✗ 4. 62 years
Q. 7	One pipe can fill the tank in 27 min while another pipe can empty the completely filled tank in 36 min. If both the pipes are operated together on empty tank, how long (in min) will it take to fill the tank completely?
Ans	✓ 1. 108
	✗ 2. 110
	✗ 3. 109
	✗ 4. 111
Q. 8	If $4p + 2q - r = 9$, $p - q + 3r = -4$, $2p + r = 1$, then $p + 2q + r$ is:
Ans	✗ 1. 2
	✗ 2. -1
	✗ 3. 1
	✓ 4. 4
Q. 9	The 7-digit number 20A716B is divisible by 24. What is the minimum value of $(A + B)$?
Ans	✗ 1. 5
	✗ 2. 3
	✗ 3. 6
	✓ 4. 2

Q.10	In a race, an athlete covers a distance of 324 metres in 108 seconds in the first lap. He covers the second lap of the same length in 54 seconds. What is the average speed (in m/s) of the athlete?
Ans	✗ 1. 8
	✗ 2. 14
	✓ 3. 4
	✗ 4. 1
Q.11	A dealer buys two articles X and Y for ₹2,000 each. He marks each of them at the same price. He sells X by giving two successive discounts of 44% and 37% and still earns ₹989 as profit. If he sells Y at a single discount of 64%, then what is the profit percentage on Y?
Ans	✗ 1. 52%
	✗ 2. 51.5%
	✗ 3. 51%
	✓ 4. 52.5%
Q.12	The number 106 is divided into two parts in such a way that the fourth part of the first and the ninth part of the second are in the ratio 2 : 5. The first part is:
Ans	✓ 1. 16
	✗ 2. 53
	✗ 3. 21
	✗ 4. 35
Q.13	The value of $\frac{\{18^3 + 36(18)^2 + 54(12)^2 + 12^3\}^{\frac{2}{3}}}{\sqrt[3]{3375} + \sqrt[3]{4096} + \sqrt[3]{2744}}$ is:
Ans	✓ 1. 20
	✗ 2. 15
	✗ 3. 28
	✗ 4. 31
Q.14	A notebook has a marked price of ₹288 and is sold at a discount of 25%. What further percentage discount should be given so that the final selling price becomes ₹108?
Ans	✓ 1. 50%
	✗ 2. 52%
	✗ 3. 55%
	✗ 4. 48%

Q.15	Two runners, X and Y, begin running on a 500-metre circular track from the same point at the same time, moving in the same direction. Runner X completes one full lap in 60 seconds, while runner Y takes 75 seconds for the same. Every time Y is diametrically opposite to X on the track, a bell rings. Then, before they both arrive together again at the starting point, how many times will the bell ring, and what is the sum of the total distances (in km) each runner will have covered till they meet again?
Ans	✗ 1. 2; 5 km
	✓ 2. 2; 4.5 km
	✗ 3. 3; 5 km
	✗ 4. 3; 4.5 km
Q.16	The average of the squares of the first 147 natural numbers, is: (Rounded off to two decimal places.)
Ans	✗ 1. 7275.67
	✗ 2. 7278.17
	✗ 3. 7277.67
	✓ 4. 7276.67
Q.17	If third proportional of 24 and 60 be x, then what is the value of x?
Ans	✗ 1. 148
	✗ 2. 152
	✗ 3. 149
	✓ 4. 150
Q.18	Three sets of Math, Physics and Chemistry books containing 705, 376 and 188 books, respectively, have to be stacked in such a way that all the books are stored subject wise and the number of books in each stack is the same. Find the total number of stacks.
Ans	✓ 1. 27
	✗ 2. 18
	✗ 3. 23
	✗ 4. 32

Q.19 Three persons A, B and C agreed to complete a construction work in 28 days. A, B and C worked for first 5 days and completed $\frac{11}{40}$ th of work. A and B worked for next 3 days and completed $\frac{1}{8}$ th of it, and the remaining work is completed in last 20 days by B and C.

In how many days can A , B and C complete the whole work alone, respectively?

Ans ☒ 1. 75, 40 , 60

☒ 2. 50, 40, 90

☒ 3. 40, 60, 75

☒ 4. 90, 75, 60

Q.20 Out of 80,000 registered voters, 25% did not vote in the first round. Of those who voted, 12% votes were invalid. Due to a tie in the first round, only the two leading candidates proceeded to a second round of voting, where only 80% of valid voters from the first round turned up to vote again. In the second round, one candidate received 30% of the votes, and the other received the rest. By how many votes did the winner win in the second round?

Ans ☒ 1. 16986

☒ 2. 16896

☒ 3. 17896

☒ 4. 17986

Q.1 Vipul gets a 5% increase in his sale amount in the first year and a 25% increase in the second year, and with that his present sale is ₹1,42,800. What was his sale (in ₹) two years ago?

Ans ✓ 1. 1,08,800

✗ 2. 88,800

✗ 3. 1,14,240

✗ 4. 1,36,000

Q2 A bus travelling at 95 km/hr completes a journey in 8 hours. At what speed will it have to cover the same distance in 20 hours?

- Ans
- ☐ 1. 29 km/hr
 - ☒ 2. 38 km/hr
 - ☐ 3. 41 km/hr
 - ☐ 4. 34 km/hr

Q3 Find the value of the below equation rounded off to one decimal place.

$$\frac{7^{-5} \times 10^{-5} \times 25}{5^{-7} \times 14^{-3}}$$

- Ans
- ☒ 1. 3.2
 - ☐ 2. 2.6
 - ☐ 3. 3.0
 - ☐ 4. 2.3

Q4 The product of two numbers is 28224 and their H.C.F is 56. Find their L.C.M.

- Ans
- ☐ 1. 499
 - ☒ 2. 504
 - ☐ 3. 512
 - ☐ 4. 505

Q5 If the mean proportional of X and 121 is 88, then find the value of X.

- Ans
- ☐ 1. 66
 - ☐ 2. 65
 - ☐ 3. 67
 - ☒ 4. 64

Q6 In a school election between A, B and C for the post of president, 20% of the total voters abstain from voting, and all casted votes are valid. A secures 40% of the votes cast, B gets equivalent to 19.2% of the total registered votes, and 504 votes are cast in favour of C. Find by what margin of votes cast does A win?

- Ans
- ☐ 1. 35
 - ☐ 2. 105
 - ☐ 3. 224
 - ☒ 4. 56

Q.7 Three friends L, M and N, run around the circumference of a garden with radius 35 m, their speeds being 8 m/s, 6 m/s and 5 m/s. They all start at the same time and point, with L and M running clockwise, and N running anti clockwise. After how long will all three meet again at the starting point?

(Take $\pi = \frac{22}{7}$)

- Ans
- ☐ 1. 2 minute 05 seconds
 - ☐ 2. 1 minute 50 seconds
 - ☒ 3. 3 minute 40 seconds
 - ☐ 4. 1 minute 10 seconds

Q.8 7 men can dig a well 20 feet deep in 8 days. How many men can dig a well 40 feet deep in 2 days?

- Ans
- ☐ 1. 57
 - ☐ 2. 54
 - ☐ 3. 58
 - ☒ 4. 56

Q.9 Pipe A and Pipe B can fill a cistern together in x hours. The efficiency of A is 40% less than the efficiency of B. If B can fill $\frac{5}{12}$ th of the cistern in $1\frac{1}{4}$ hours, find x.

- Ans
- ☒ 1. $1\frac{7}{8}$
 - ☐ 2. $2\frac{5}{9}$
 - ☐ 3. $2\frac{2}{3}$
 - ☐ 4. $3\frac{4}{7}$

Q.10 I bought two shirts for ₹1,200. I sold the first one at a loss of 13% and the second at a gain of 26%. If, on the whole I made neither a loss nor a gain, find the cost price (in ₹) of the first shirt.

- Ans
- ☐ 1. 784
 - ☐ 2. 824
 - ☐ 3. 820
 - ☒ 4. 800

Q.11 During a sale, books are marked up by 20% and a discount of 15% is given. What is the cost price (rounded off to the nearest integer) of a book, if it is sold at ₹170?

- Ans ☐ 1. ₹105
☒ 2. ₹167
☐ 3. ₹123
☐ 4. ₹148

Q.12 The monthly income of three persons A, B and C amounts to ₹57,000. They spend 70%, 75% and 80% of their respective incomes and save the remaining. The ratio of their savings is 4 : 5 : 6. Find the monthly income of C.

- Ans ☐ 1. ₹18,000
☐ 2. ₹12,000
☐ 3. ₹25,000
☒ 4. ₹27,000

Q.13 In a company, employees are divided into three levels: Junior, Mid and Senior. The average salary of the company is ₹47,500. Juniors earn ₹30,000 on average, Seniors earn ₹80,000, and there are 5 mid-level employees earning ₹50,000 each. If the number of Junior employees is twice that of Seniors, then what will be the average salary of the company after 4 juniors left the company and 2 mid-level and 3 senior level new employees join the company (to the nearest whole number)?

- Ans ☐ 1. ₹55,614
☒ 2. ₹55,714
☐ 3. ₹54,714
☐ 4. ₹54,614

Q.14 The cost of 14 pens and 8 pencils is ₹228. If the cost of a pen decreases by ₹5 and the cost of a pencil increases by ₹2, then the cost of 9 pens and 4 pencils is ₹97. What is the original cost of 7 pens and 7 pencils?

- Ans ☐ 1. ₹146
☒ 2. ₹147
☐ 3. ₹150
☐ 4. ₹151

Q.15 The difference between the simple interest and the compound interest, compounded annually, on a certain sum of money for 2 years at 14% per annum is ₹741. Find the sum. (Rounded off to the nearest integer.)

- Ans
- ✓1. ₹37,806
 - ✗2. ₹37,813
 - ✗3. ₹37,821
 - ✗4. ₹37,819

Q.16 If 2 times the mother's present age is 30 years more than 8 times her daughter's age, and 4 times the daughter's age is 15 year less than the mother's age, then what is the difference (in years) between the ages of the mother and the daughter?

- Ans
- ✗1. 20
 - ✗2. 25
 - ✗3. 35
 - ✓4. 30

Q.17 A dealer buys two articles X and Y for ₹1,500 each. He marks each of them at the same price. He sells X by giving two successive discounts of 25% and 44% and still earns ₹279 as profit. If he sells Y at a single discount of 58%, then what is the profit percentage on Y?

- Ans
- ✓1. 18.6%
 - ✗2. 18%
 - ✗3. 17%
 - ✗4. 17.6%

Q.18 A batsman in his 10th innings makes a score of 95 runs and increases his average by 3 runs. What is his average (in runs) after the 10th innings?

- Ans
- ✗1. 95
 - ✗2. 65
 - ✓3. 68
 - ✗4. 71

Q.19 A man has invested ₹54,000 at a rate of 10% per annum simple interest for 3 years. Find the amount (in ₹) that he will receive after 3 years.

- Ans
- ✓1. 70,200
 - ✗2. 17,200
 - ✗3. 16,200
 - ✗4. 71,200

Q.20 If the ratio of two numbers is $9 : 8$ and their HCF is 31, find their LCM.

Ans ✓ 1. 2232

✗ 2. 2256

✗ 3. 2276

✗ 4. 2244

Q1 The 7-digit number 51A808B is divisible by 24. What is the minimum value of (A + B)?

- Ans
- ☐ 1. 5
 - ☐ 2. 3
 - ☒ 3. 2
 - ☐ 4. 6

Q2 A can beat B in a race of 800 m by 72 m or 12 seconds. Find the speed of A (in km/hr, rounded off to two decimal places).

- Ans
- ☐ 1. 26.49
 - ☐ 2. 22.31
 - ☐ 3. 20.98
 - ☒ 4. 23.74

Q3 The cost price of an article is ₹620, and its marked price is ₹800. If the seller offers a 7% discount on the marked price, what will be his profit percentage?

- Ans
- ☐ 1. 23%
 - ☐ 2. 18%
 - ☐ 3. 21%
 - ☒ 4. 20%

Q4 A man has invested ₹54,500 at a rate of 6% per annum simple interest for 3 years. Find the amount (in ₹) that he will receive after 3 years.

- Ans
- ☒ 1. 64,310
 - ☐ 2. 10,810
 - ☐ 3. 65,310
 - ☐ 4. 9,810

Q.5 Ajay, Vijay and Sujay can paint a room in 6 hours, 3 hours and 2 hours, respectively. Ajay works in the 1st hour, Ajay and Vijay in the 2nd hour and, after 2 hours, all the three work together until the work is completed. What part of the total work is completed by Vijay alone?

- Ans
- ☐ 1. $\frac{6}{7}$
 - ☐ 2. $\frac{2}{3}$
 - ☐ 3. $\frac{3}{4}$
 - ☒ 4. $\frac{4}{9}$

Q.6 A person borrows ₹28,400 at 15% compound interest per year, compounded annually. At the end of every year, he pays ₹9,100 as part payment. How much does he still owe after two such instalments?

- Ans
- ☐ 1. ₹17,795
 - ☒ 2. ₹17,994
 - ☐ 3. ₹17,817
 - ☐ 4. ₹17,973

Q.7 The average of the squares of the first 150 natural numbers is:
(Rounded off to two decimal places.)

- Ans
- ☐ 1. 7576.17
 - ☒ 2. 7575.17
 - ☐ 3. 7576.67
 - ☐ 4. 7574.17

Q.8 P and Q together can fill a cistern with water in 30 hours. If P alone can fill the cistern with water in 80 hours, then in how many hours will Q alone fill half of the cistern with water?

- Ans
- ☒ 1. 24
 - ☐ 2. 49
 - ☐ 3. 25
 - ☐ 4. 48

Q.9 The number of peacocks in a bird sanctuary was P in the year 2000. The number decreased by 10% in the next decade and increased by 50% in the decade after that. If the difference between the number of peacocks in the years 2020 and 2000 is 5250, and it increased by 36% in the next half decade, then what is the number of peacocks in the year 2025?

Ans ☒ 1. 27,540
☐ 2. 23,850
☐ 3. 22,740
☐ 4. 25,450

Q.10 5 chairs and 18 tables cost ₹9,300 and 3 chairs and 18 tables cost ₹7,200. What is the cost of 5 chairs and 16 tables?

Ans ☒ 1. ₹8,850
☐ 2. ₹8,853
☐ 3. ₹8,851
☐ 4. ₹8,847

Q.11 I bought two dresses for ₹1,200. I sold the first one at a loss of 14% and the second at a gain of 10%. If, on the whole I made neither a loss nor a gain, find the cost price (in ₹) of the first dress.

Ans ☐ 1. 484
☐ 2. 520
☒ 3. 500
☐ 4. 524

Q.12 Three partners invested in a business in the ratio 8 : 4 : 6. They invested their capitals for 8 months, 3 months and 6 months, respectively. What was the ratio of their profits?

Ans ☐ 1. 17 : 3 : 9
☐ 2. 19 : 3 : 9
☐ 3. 14 : 3 : 9
☒ 4. 16 : 3 : 9

Q.13 An article is sold at a discount of 35%, and an additional discount of 40% is allowed on cash payment. If a customer purchased the article by paying ₹4,480 in cash, the marked price (in ₹, rounded to two decimal places) of the article was:

- Ans
- ☐ 1. 14,187.32
 - ☐ 2. 17,178.66
 - ☒ 3. 11,487.18
 - ☐ 4. 17,871.53

Q.14 A man receives ₹1,766 per month as salary. He saves 50% of his salary every month. His expenditure per month is:

- Ans
- ☐ 1. ₹804
 - ☒ 2. ₹883
 - ☐ 3. ₹876
 - ☐ 4. ₹934

Q.15 There are three containers, X, Y and Z, each having a solution of concentrated juice, sugar solution and water. The concentrated juice is 5% in each whereas the sugar solution is 70%, 60% and 50%, respectively and the rest is water. Solutions in X, Y and Z are mixed together in a bigger drum. Ten litres are drawn from the drum and poured in to a bucket to which 2 litres water is added. Find the percentage of sugar solution in the bucket .

- Ans
- ☐ 1. $57\frac{3}{4}\%$
 - ☐ 2. $33\frac{1}{5}\%$
 - ☒ 3. 50%
 - ☐ 4. 44%

Q.16 The semi perimeter of the rectangular wall of a room is $(3x - 7y + 5)$ m, and its height is $(2x + y)$ m. Find the area of four walls of the room, if $x = 3$ and $y = -2$.

- Ans
- ☐ 1. 168 m²
 - ☐ 2. 264 m²
 - ☐ 3. 135 m²
 - ☒ 4. 224 m²

Q.17 What is the average speed of a truck that covers half the distance with a speed of 42 km/hr and the other half with a speed of 56 km/hr?

- Ans
- ☐ 1. 50 km/hr
 - ☐ 2. 44 km/hr
 - ☒ 3. 48 km/hr
 - ☐ 4. 45 km/hr

Q.18 The sum of the present ages of A, B and C is 210 years. 7 years ago from now, the ratio of their ages was 10 : 11 : 6. What is the present age of C (in years)?

- Ans
- ☐ 1. 51
 - ☒ 2. 49
 - ☐ 3. 47
 - ☐ 4. 50

Q.19 The value of $(ap)^{\frac{1}{p^2 - p + 1}} \times (a^{-p})^{\frac{1}{p^2 + p + 1}} \times (a^{-2p})^{\frac{1}{p^4 + p^2 + 1}}$ is:

- Ans
- ☒ 1. 1
 - ☐ 2. $\frac{1}{a}$
 - ☐ 3. a^2
 - ☐ 4. a

Q.20 Two buses leave a station at the same time. One bus returns to the station every 20 minutes, and the other returns every 30 minutes. After how many minutes will both buses return to the station together?

- Ans
- ☒ 1. 60 minutes
 - ☐ 2. 30 minutes
 - ☐ 3. 45 minutes
 - ☐ 4. 90 minutes

Q.1 Simplify $53 - \{18 \div (3 \times 6 - 9)\}$.

Ans  1. 56

 2. 58

 3. 51

 4. 47

Q.2 The present cost of a hospital is ₹1,01,993. After a year, its cost increased to ₹1,25,408. The percentage increase (rounded off to the nearest integer) in the cost of the hospital is:

- Ans ☐ 1. 24%
☐ 2. 28%
☒ 3. 23%
☐ 4. 25%

Q.3 There are 5481 students in a school and the ratio of boys to girls in the school is 34 : 29, then find the number of boys in school.

- Ans ☒ 1. 2958
☐ 2. 2971
☐ 3. 2944
☐ 4. 2961

Q.4 A dealer buys two articles X and Y for ₹5,500 each. He marks each of them at the same price. He sells X by giving two successive discounts of 55% and 60% and still earns ₹143 as profit. If he sells Y at a single discount of 76%, then what is the profit percentage on Y?

- Ans ☒ 1. 36.8%
☐ 2. 36%
☐ 3. 34.8%
☐ 4. 34%

Q.5 An exhibition for books announces a sale as follows. The marked price of each book is ₹200.

Purchase	Discount
5 or more	5%
10 or more	10%
20 or more	15%
25 or more	25%

There is an extra 10% discount for payment by cash. If J purchases 23 books on credit and K purchases 30 books for cash, find the combined selling price.

- Ans ☒ 1. ₹7,960
☐ 2. ₹7,550
☐ 3. ₹8,035
☐ 4. ₹8,410

Q.6 Pallavi bought a toy for ₹460, decorated it at a cost of ₹20, and sold the toy for ₹94. Find the loss or gain percentage.

- Ans
- ☒ 1. $\frac{965}{12}\%$ profit
 - ☒ 2. $\frac{975}{12}\%$ profit
 - ☒ 3. $\frac{965}{12}\%$ loss
 - ☒ 4. 965 % loss

Q.7 For which values of A and B does the given pair of linear equations $3x + 2y = 8$ and $(A - B)x + (A + B)y = 3A + B - 5$ have an infinite number of solutions?

7

Ans

- ☒ 1. $A = \frac{25}{2}, B = \frac{-7}{2}$
- ☒ 2. $A = \frac{5}{2}, B = \frac{7}{2}$
- ☒ 3. $A = \frac{25}{2}, B = \frac{-5}{2}$
- ☒ 4. $A = \frac{-25}{2}, B = \frac{5}{2}$

Q.8 The average age of a family of n members is 25 years. If the age of the youngest member is 10 years, and the ratio of the average age of the remaining (n-1) members just before the birth of the youngest member to the current average age of (n-1) the oldest members is 2 : 3, then what is the value of $9n - n^2$?

- Ans
- ☒ 1. $5n - 2$
 - ☒ 2. $5n$
 - ☒ 3. $2n$
 - ☒ 4. $2n - 5$

Q.9 Two cyclists A and B started at the same time towards east and north directions with speeds 4 km/hr and 3 km/hr, respectively. After travelling for 2 hours, if both started driving towards the west direction with speeds of 5 times and 4 times of their previous speeds, respectively, then what would be the shortest distance between them after 2 hours?

- Ans
- ☒ 1. 18 km
 - ☒ 2. 10 km
 - ☒ 3. 12.5 km
 - ☒ 4. 12 km

Q.10 A pipe can fill a tank in 21 hours. Another pipe can empty the filled tank in 63 hours. If both the pipes are opened simultaneously, then the time (in hours) in which the tank will be filled two-third is:

- Ans
- ☐ 1. 84
 - ☒ 2. 21
 - ☐ 3. 63
 - ☐ 4. 42

Q.11 Let a, b and c be natural numbers. If the average value of 20% of a and 30% of b is 270; that of 10% of b and 25% of c is 115 and the difference between b and c is 200, then what is the value of $(a + b + 2c)$?

- Ans
- ☐ 1. 3680
 - ☐ 2. 4152
 - ☐ 3. 2750
 - ☒ 4. 3500

Q.12 Three years ago, the age of father was 12 years more than twice his son's age. After how many years, from now, will he be twice his son's age?

- Ans
- ☐ 1. 8
 - ☒ 2. 9
 - ☐ 3. 13
 - ☐ 4. 10

Q.13 What will be the difference in population 3 years ago and 2 years ago of a town, whose current population is 3,80,000 and which is increasing at a rate of 25% every year?

- Ans
- ☒ 1. 48,640
 - ☐ 2. 48,990
 - ☐ 3. 47,890
 - ☐ 4. 48,090

Q.14 A car travels 299 km in the first hour and 73 km in the second hour. What is the average speed (in km/hr) of the car for the whole journey?

- Ans
- ☐ 1. 187
 - ☒ 2. 186
 - ☐ 3. 183
 - ☐ 4. 181

Q.15 P and Q work together to tile a floor of dimension of 16 m by 12 m, each tile being 1 m by 0.5 m. P can tile at the rate of 50 per hour and Q at 60 per hour. What is the time (in hours) taken to complete, if they work together?

- Ans
- ✓1. $3\frac{27}{44}$
 - ✗2. $3\frac{7}{14}$
 - ✗3. $3\frac{7}{22}$
 - ✗4. $3\frac{1}{2}$

Q.16 The sum of two numbers is 1206, and their HCF is 9. Which of the following could be the two numbers?

- Ans
- ✗1. (569 and 637)
 - ✓2. (585 and 621)
 - ✗3. (612 and 594)
 - ✗4. (603 and 594)

Q.17 During a new year, a father gives 25% of his fortune to each of his four sons A, B, C and D. They all invest, and at the end of the 1st year, A and B each earn a profit of 40%, whereas C and D make a loss of 20% and 30%, respectively. At the end of the second year, (reinvesting any profit made) A makes a loss of 50%, whereas B, C and D make a profit of 25% each. What percentage of their father's fortune is left at the end of the second year (rounded off to nearest integer)?

- Ans
- ✗1. 8%
 - ✓2. 108%
 - ✗3. 98%
 - ✗4. 58%

Q.18 Kiran starts business with ₹55,000 and after 7 months, Zarina joins with Kiran as her partner. After a year, the profit is divided in the ratio 8 : 5. What is Zarina's contribution in the capital?

- Ans
- ✗1. ₹84,115
 - ✗2. ₹82,075
 - ✗3. ₹80,790
 - ✓4. ₹82,500

Q.19 In finding the HCF of two numbers by division method, the quotients are 4, 6 and 9, respectively, and the last divisor is 45. What is the LCM of the two numbers?

- Ans
- ✗1. 566772
 - ✓2. 566775
 - ✗3. 566771
 - ✗4. 566778

Q.20

A man has invested ₹54,500 at a rate of 8% per annum simple interest for 3 years. Find the amount (in ₹) that he will receive after 3 years.

Ans

✗ 1. 13,080

✗ 2. 14,080

✗ 3. 68,580

✓ 4. 67,580

Q.1 A library has an average of 780 visitors on Sundays and 360 on other days. The average number of visitors per day in a month of 30 days beginning with a Sunday is:

Ans ✓ 1. 430

✗ 2. 458

✗ 3. 450

✗ 4. 436

Q.2 If $x^2 + \frac{1}{x^2} = 11$, find the positive value of $x^3 - \frac{1}{x^3}$.

Ans ✗ 1. 32

✓ 2. 36

✗ 3. 30

✗ 4. 45

Q3 The average of the squares of the first 151 natural numbers is:

- Ans ☒ 1. 7676
☐ 2. 7677.5
☐ 3. 7677
☐ 4. 7675
-

Q4 The number 489535 is divisible by which of the following?

- Ans ☐ 1. 12
☐ 2. 8
☐ 3. 4
☒ 4. 5
-

Q5 A dealer buys two articles X and Y for ₹4,000 each. He marks each of them at the same price. He sells X by giving two successive discounts of 63% and 34% and still earns ₹810 as profit. If he sells Y at a single discount of 67%, then what is the profit percentage on Y?

- Ans ☒ 1. 62.5%
☐ 2. 62%
☐ 3. 61%
☐ 4. 61.5%
-

Q6 A man receives ₹4,190 per month as salary. He saves 70% of his salary every month. His expenditure per month is:

- Ans ☐ 1. ₹1,329
☐ 2. ₹1,266
☒ 3. ₹1,257
☐ 4. ₹1,353
-

Q7 A bus travelling at 90 km/hr completes a journey in 20 hours. At what speed will it have to cover the same distance in 10 hours?

- Ans ☒ 1. 180 km/hr
☐ 2. 190 km/hr
☐ 3. 178 km/hr
☐ 4. 188 km/hr
-

Q.8 A trader bought 65 plates for ₹65. out of these, 21 plates were broken during transport. He sold the rest at ₹4.90 each. Determine his profit.

- Ans
- ☐ 1. ₹158.60
 - ☐ 2. ₹143.20
 - ☒ 3. ₹150.60
 - ☐ 4. ₹151.50

Q.9 Two numbers are in the ratio 5 : 3. If the product of their LCM and HCF is 1815, then what are the numbers?

- Ans
- ☐ 1. 63 and 56
 - ☒ 2. 55 and 33
 - ☐ 3. 39 and 44
 - ☐ 4. 60 and 68

Q.10 A man has invested ₹54,500 at a rate of 10% per annum simple interest for 4 years. Find the amount (in ₹) that he will receive after 4 years.

- Ans
- ☐ 1. 77,300
 - ☐ 2. 22,800
 - ☒ 3. 76,300
 - ☐ 4. 21,800

Q.11 The sum of the present ages of A, B and C is 165 years. 22 years ago from now, the ratio of their ages was 3 : 2 : 6. What is the present age of C (in years)?

- Ans
- ☐ 1. 79
 - ☐ 2. 75
 - ☐ 3. 78
 - ☒ 4. 76

Q.12 A pipe can fill a tank in 24 hours. Another pipe can empty the filled tank in 27 hours. If both the pipes are opened simultaneously, then the time (in hours) in which the tank will be filled two-third is:

- Ans
- ☐ 1. 432
 - ☐ 2. 288
 - ☒ 3. 144
 - ☐ 4. 576

Q.13 A man can row 30 km upstream and 55 km downstream in the same amount of time as he can row 38.5 km downstream and 37.5 km upstream. Find the ratio of the rowing speed to the speed of the current.

- Ans
- ☐ 1. 7 : 2
 - ☐ 2. 9 : 2
 - ☐ 3. 5 : 3
 - ☒ 4. 8 : 3

Q.14 A family spends 30%, 20%, 17.5%, and 12.5%, of it's monthly income for house rent, food and medicines, education of children and entertainment, respectively. The remaining is divided for savings and donations in the ratio 3 : 2. The sum of the expenditure on house rent and education of children is ₹39,900. After one year if house rent and expenditure on entertainment are reduced by 5% and 2.5%, respectively, and expenditure on education of children is increased by 2.5% and the remaining expenditures except savings are same as the previous year, then what is the amount saved per month in the present year?

- Ans
- ☐ 1. ₹15,470
 - ☒ 2. ₹11,235
 - ☐ 3. ₹16,450
 - ☐ 4. ₹14,100

Q.15 Three partners invested in a business in the ratio 1 : 4: 9. They invested their capitals for 4 months, 1 months and 3 months, respectively. What was the ratio of their profits?

- Ans
- ☒ 1. 4 : 4 : 27
 - ☐ 2. 5 : 4 : 27
 - ☐ 3. 7 : 4 : 27
 - ☐ 4. 3 : 4 : 27

Q.16 A retailer sold an item at ₹36,750 after giving a 26.5% discount. What is 16% of the difference between the original marked price and the selling price?

- Ans
- ☒ 1. ₹2,150
 - ☒ 2. ₹2,120
 - ☐ 3. ₹2,130
 - ☐ 4. ₹2,140

Q.17 Factorise $361a^2 + 152ab + 16b^2$.

- Ans
- ☒ 1. $(19a + 4b)^2$
 - ☐ 2. $(4a - 19b)^2$
 - ☐ 3. $(19a - 4b)^2$
 - ☐ 4. $(4a + 19b)^2$

Q.18 A tank has three pipes: A, B and C. Pipes A and B can fill the tank in 5 hours and 6 hours, respectively, while pipe C can empty the entire tank in 12 hours. On a particular day, all three pipes are opened simultaneously. Due to a mechanical schedule, pipe C automatically shuts off after a certain point. Exactly seventeen-thirtieths ($17/30$) of the tank is filled in the first 2 hours of operation. After this point, pipe C is closed and pipes A and B continue alone. If the pipes are opened at 10 a.m., then at what time (to the nearest minute) will the tank be full?

- Ans
- ☐ 1. 1:41 p.m.
 - ☐ 2. 1:12 p.m.
 - ☐ 3. 1:42 p.m.
 - ☒ 4. 1:11 p.m.

Q.19 What will be the total amount payable on a sum of ₹3,500 after two years at the rate of 20% per annum if the interest is compounded annually?

- Ans
- ☒ 1. ₹5,040
 - ☐ 2. ₹5,199
 - ☐ 3. ₹4,724
 - ☐ 4. ₹5,817

Q.20

Evaluate $6.3\overline{73} - 4.2\overline{65}$.

Ans

 1. $\frac{1797}{909}$

 2. $\frac{1897}{900}$

 3. $\frac{2197}{900}$

 4. $\frac{1997}{1100}$

Q.1	I bought two music players for ₹1,200. I sold the first one at a loss of 13% and the second at a gain of 17%. If, on the whole I made neither a loss nor a gain, find the cost price (in ₹) of the first music player.
Ans	✓ 1. 680
	✗ 2. 664
	✗ 3. 704
	✗ 4. 700
Q.2	The cost of 13 pens and 3 notebooks is ₹234. If the cost of a pen decreases by ₹6 and the cost of a notebook increases by ₹9, then the cost of 16 pens and 2 notebooks is ₹144. What is the original cost of 6 pens and 17 notebooks?
Ans	✗ 1. ₹722
	✗ 2. ₹718
	✗ 3. ₹721
	✓ 4. ₹717
Q.3	Factorise $196a^2 + 504ab + 324b^2$.
Ans	✗ 1. $(18a - 14b)^2$
	✓ 2. $(14a + 18b)^2$
	✗ 3. $(14a - 18b)^2$
	✗ 4. $(18a + 14b)^2$
Q.4	The number of prime numbers lying between 333 and 346 is:
Ans	✗ 1. 4
	✗ 2. 3
	✓ 3. 1
	✗ 4. 2
Q.5	The difference between the simple interest and the compound interest, compounded annually, on a certain sum of money for 2 years at 7% per annum is ₹73. Find the sum. (Rounded off to the nearest integer.)
Ans	✓ 1. ₹14,898
	✗ 2. ₹14,892
	✗ 3. ₹14,887
	✗ 4. ₹14,900

Q.6	The sum of the present ages of A, B and C is 140 years. 21 years ago from now, the ratio of their ages was 3 : 6 : 2. What is the present age of C (in years)?
Ans	✓ 1. 35
	✗ 2. 37
	✗ 3. 36
	✗ 4. 33
Q.7	A salt solution has 60% of salt. Another salt solution has 60% of water. 63 L of the second solution is added to 27 L of the first solution to make a salt solution of x%. What is the ratio of water to salt in the final solution?
Ans	✓ 1. 27 : 23
	✗ 2. 19 : 15
	✗ 3. 33 : 31
	✗ 4. 29 : 24
Q.8	A distributor provides a trade discount that includes a 10% scheme discount on orders exceeding ₹1,00,000 and a 3% cash discount on the order price after scheme discount for payments within 10 days. If an order of ₹1,50,000 is paid within 7 days, calculate the total discount amount.
Ans	✗ 1. ₹19,150
	✗ 2. ₹16,050
	✓ 3. ₹19,050
	✗ 4. ₹15,950
Q.9	Evaluate $8.05\overline{1} - 4.28\overline{6}$
Ans	✗ 1. $\frac{3688}{900}$
	✗ 2. $\frac{3288}{900}$
	✗ 3. $\frac{3488}{1100}$
	✓ 4. $\frac{3388}{900}$

Q.10	Around a circular track, A and B walk in the opposite direction at a speed of 5 rounds per hour and 6 rounds per hour, respectively. How many times will they cross each other in 2.5 hours?
Ans	✗ 1. 25
	✗ 2. 30
	✓ 3. 27
	✗ 4. 23
Q.11	If 51% of the first number is equal to five-sevenths of the second number, what is the ratio of the first number to the second number?
Ans	✗ 1. 495 : 353
	✗ 2. 504 : 356
	✓ 3. 500 : 357
	✗ 4. 503 : 354
Q.12	Sachin gets a 5% increase in his sale amount in the first year and a 20% increase in the second year, bringing his present sale amount to ₹2,26,800. What was his sale (in ₹) two years ago?
Ans	✓ 1. 1,80,000
	✗ 2. 1,89,000
	✗ 3. 2,16,000
	✗ 4. 1,60,000
Q.13	Let k be a natural number and $1 \leq k \leq 16$. Let A be a set of two-digit natural numbers which are in the form $6k + 1$, B be the set of two-digit prime numbers which are in the form $6k + 1$, $n(A) = x$, $n(B) = y$, and the number of pairs of co-prime numbers of set A be z . What is the value of $x + y + z$?
Ans	✗ 1. 225
	✗ 2. 231
	✗ 3. 100
	✓ 4. 125

Q.14	Ten years back, the average age of a father and a son was 16 years and after 20 years, the average age of father and three times the age of son will be 78. What is the difference of their present ages?
Ans	☐ 1. 19 years
	☐ 2. 23 years
	☐ 3. 32 years
	☒ 4. 28 years
Q.15	A container holds a mixture of liquids A to B in the ratio 3 : 1. What fraction of the total volume must be removed and replaced with liquid B so that the new ratio of A to B becomes 1 : 1?
Ans	☐ 1. $\frac{3}{4}$
	☒ 2. $\frac{1}{2}$
	☐ 3. $\frac{2}{3}$
	☐ 4. $\frac{1}{4}$
Q.16	In a race, an athlete covers a distance of 492 metres in 164 seconds in the first lap. He covers the second lap of the same length in 82 seconds. What is the average speed (in m/s) of the athlete?
Ans	☐ 1. 8
	☒ 2. 4
	☐ 3. 2
	☐ 4. 1
Q.17	A man has invested ₹54,000 at a rate of 8% per annum simple interest for 2 years. Find the amount (in ₹) that he will receive after 2 years.
Ans	☒ 1. 62,640
	☐ 2. 63,640
	☐ 3. 8,640
	☐ 4. 9,640

Q.18 The cost price of an article is ₹1,476. The vendor wants to earn a profit of 28% after giving a discount of 22%. What will be the marked price of the article? (Give your answer correct to the nearest integer.)

Ans ☒ 1. ₹2,429

☒ 2. ₹2,422

☒ 3. ₹2,420

☒ 4. ₹2,425

Q.19 Atul and Vignesh can complete a job in 10 and 12 days, respectively, if they work separately. In how many days will the job get completed if Vignesh starts the work and they work on alternate days on the same job?

Ans ☒ 1. $\frac{35}{6}$

☒ 2. $\frac{65}{6}$

☒ 3. 11

☒ 4. 6

Q. Three pipes can fill an empty water tank in $\frac{3}{4}$ hours, 2 hours and $1\frac{1}{2}$ hours. A and B are opened, at the same time. If after 30 minutes C is also opened then what is the total time taken (in minutes) to fill the tank from the beginning?

20
Answers

☒ 1. 36

☒ 2. 35

☒ 3. 32

☒ 4. 31

Q.1 Janaki leaves her home every day at 7:55 a.m and reaches office at 9: 25 a.m. However, one day she left her home at 7:55 a.m. but reached office at 09:20:30 a.m.

Which of the statements below support the information provided above?

Statement 1: Janaki travelled $\frac{3}{10}$ of the distance at $\frac{6}{7}$ of her usual speed and the rest of the distance at $\frac{7}{6}$ of her usual speed.

Statement 2: Janaki travelled $\frac{5}{8}$ of the distance at $\frac{5}{4}$ of her usual speed and the rest of the distance at $\frac{5}{6}$ of her usual speed.

Statement 3: Janaki travelled $\frac{7}{9}$ of the distance at $\frac{5}{6}$ of her usual speed and the rest of the distance at $\frac{20}{3}$ of her usual speed.

Ans  1.

Each of Statements 1 and 3 supports the information provided, but Statement 2 doesn't.

 2.

Each of Statements 2 and 3 supports the information provided, but Statement 1 doesn't.

 3.

Each of Statements 1 and 2 supports the information provided, but Statement 3 doesn't.

 4.

None of the three statements supports the information provided.

Question ID : 630680552796

Option 1 ID : 6306802161279

Option 2 ID : 6306802161280

Option 3 ID : 6306802161278

Option 4 ID : 6306802161281

Status : Not Answered

Chosen Option : --

Q.2 In the last financial year the ratio of the monthly incomes of Viraj and Rohan was m : n and the ratio of their monthly expenditures was p : n. In the current financial year Viraj's income has increased by q% and his expenditure has gone up by 2q%. The corresponding increases for Rohan have been r% and s% respectively. The current monthly savings of Viraj and Rohan are respectively Rs u and Rs v, while the monthly savings of Rohan last year was Rs t.

Which one of the following is correct in respect of the Question and the Statements given below?

Statement 1: The values of m, n, p, q, r, s, t, u, and v are given respectively as 8, 5, 4, 12.5, 40, 20, 10000, 58000, and 24000.

Statement 2: The values of m, n, p, q, r, s, t, u, and v are given respectively as 10, 7, 6, 15, 40, 20, 7700, 21530, and 14140.

Ans  1.

Only statement 2 has values of the variables that are consistent with one another.

 2.

Only statement 1 has values of the variables that are consistent with one another.

 3.

Neither of the two statements has values of the variables that are consistent with one another.

 4.

Both statements have values of the variables that are consistent with one another.

Question ID : 630680552791

Option 1 ID : 6306802161259

Option 2 ID : 6306802161258

Option 3 ID : 6306802161261

Option 4 ID : 6306802161260

Status : Not Answered

Chosen Option : --

Q.3 A train travels at a speed of 72.6 km/hr. How many kilometres will it travel in 15 minutes?

- Ans**  1. 13.12 km
 2. 16.22 km
 3. 20.5 km
 4. 18.15 km

Question ID : 630680552776
Option 1 ID : 6306802161199
Option 2 ID : 6306802161200
Option 3 ID : 6306802161201
Option 4 ID : 6306802161198
Status : Answered
Chosen Option : 4

Q.4 From a cask filled with wine, 108.75 litres are first drawn and replaced with water. From this mixture 87 litres are drawn and replaced with water. The ratio of wine to water in the cask is now 3 : 2. How many litres of wine did the cask initially hold?

- Ans**  1. 522
 2. 348
 3. 470
 4. 435

Question ID : 630680552788
Option 1 ID : 6306802161246
Option 2 ID : 6306802161248
Option 3 ID : 6306802161249
Option 4 ID : 6306802161247
Status : Answered
Chosen Option : 3

Q.5 What would be the annual interest accrued on a deposit of ₹24,550 in a bank that pays a 22% per annum rate of simple interest?

- Ans**  1. ₹6320
 2. ₹5401
 3. ₹5560
 4. ₹4760

Question ID : 630680552769
Option 1 ID : 6306802161171
Option 2 ID : 6306802161170
Option 3 ID : 6306802161172
Option 4 ID : 6306802161173
Status : Answered
Chosen Option : 2

Q.6 The cost price of 28 articles is the same as the selling price of x articles. If the profit is 40%, then find the value of x.

- Ans**  1. 14
 2. 20
 3. 15
 4. 16

Question ID : 630680552774
Option 1 ID : 6306802161190
Option 2 ID : 6306802161193
Option 3 ID : 6306802161191
Option 4 ID : 6306802161192
Status : Answered
Chosen Option : 2

Q.7 How many pairs of natural numbers (x, y) exist such that $x > y$ and the product of x, y and HCF (x, y) = 2520?

- Ans**  1. 3
 2. 4
 3. 5
 4. 6

Question ID : 630680552790
Option 1 ID : 6306802161256
Option 2 ID : 6306802161257
Option 3 ID : 6306802161255
Option 4 ID : 6306802161254
Status : Not Answered
Chosen Option : --

Q.8 The average age of a group of 10 friends is 27 years. If one friend leaves the group, the average becomes 25 years. Find the age of the friend who left the group.

- Ans**  1. 45 years
 2. 50 years
 3. 55 years
 4. 65 years

Question ID : 630680552768
Option 1 ID : 6306802161167
Option 2 ID : 6306802161169
Option 3 ID : 6306802161168
Option 4 ID : 6306802161166
Status : Answered
Chosen Option : 1

Q.9 If the numerator of a fraction is increased by 25% and the denominator is decreased by 10%, the value of the new fraction becomes $\frac{25}{24}$. Find the original fraction.

- Ans**
- ☒ 1. $2 : 3$
 - ☒ 2. $4 : 3$
 - ☒ 3. $3 : 2$
 - ☒ 4. $3 : 4$

Question ID : 630680552773
Option 1 ID : 6306802161186
Option 2 ID : 6306802161188
Option 3 ID : 6306802161189
Option 4 ID : 6306802161187
Status : Answered
Chosen Option : 4

Q.10 Find the HCF of 36, 108, and 156.

- Ans**
- ☒ 1. 12
 - ☒ 2. 36
 - ☒ 3. 16
 - ☒ 4. 9

Question ID : 630680552771
Option 1 ID : 6306802161178
Option 2 ID : 6306802161179
Option 3 ID : 6306802161181
Option 4 ID : 6306802161180
Status : Answered
Chosen Option : 1

Q.11 Which one of the following is correct in respect of the Statements given below?

Statement 1: 2^{10} is the smallest natural number having exactly 11 factors.

Statement 2: 2^{11} is the smallest natural number having exactly 12 factors.

Statement 3: 2^{12} is the smallest natural number having exactly 13 factors.

- Ans**
- ☒ 1. All the three statements given above are true.
 - ☒ 2. Statements 1 and 2 are true, but Statement 3 is false.
 - ☒ 3. None of the three statements (1, 2, 3) given is true.
 - ☒ 4. Statements 1 and 3 are true, but Statement 2 is false.

Question ID : 630680552789
Option 1 ID : 6306802161250
Option 2 ID : 6306802161251
Option 3 ID : 6306802161253
Option 4 ID : 6306802161252
Status : Not Answered
Chosen Option : --

Q.12 If the interest is compounded half-yearly, calculate the amount when the principal is ₹4000, the rate of interest is 22% per annum and the duration is one year.

- Ans**  1. ₹4928.4
-  2. ₹4288.8
-  3. ₹4825.5
-  4. ₹5204.9

Question ID : 630680552770
Option 1 ID : 6306802161174
Option 2 ID : 6306802161175
Option 3 ID : 6306802161177
Option 4 ID : 6306802161176
Status : Answered
Chosen Option : 1

Q.13 Rohan purchased an item for which there was a 13.5% discount offered on the part of the payment made in cash and a 6.25% surcharge on the part of the payment made through a credit card.If Rohan would have paid the entire amount in cash he would have paid Rs y for the item. But he actually had to pay Rs 40964 in all for the item, out of which Rs 29064 was paid in cash. What is the value of y?

- Ans**  1. 32988
-  2. 35700
-  3. 38554
-  4. 38752

Question ID : 630680552792
Option 1 ID : 6306802161265
Option 2 ID : 6306802161263
Option 3 ID : 6306802161264
Option 4 ID : 6306802161262
Status : Not Answered
Chosen Option : --

Q.14 On a particular day each of Danny, Edwin and Fahim sold three types of pens from their respective shops. As a coincidence, each of them sold an identical number of pens of Type A, an identical number of pens of Type B and an identical number of pens of Type C. However, the numbers of pens of each type that were sold were all different from one another. Also, the three sellers sold each of the types of pens at different prices per unit.

Assertion (A): It is possible that Danny sold each pen of Type A at a profit of Rs 2, each pen of Type B at a loss of Re 1, and each pen of Type C at a loss of Rs 12 and made an overall profit of Rs 8; Edwin sold each pen of Type A at a profit of Rs 2, each pen of Type B at a loss of Rs 6, and each pen of Type C at a loss of Rs 6 and made an overall profit of Rs 14; and Fahim sold each pen of Type A at a profit of Re 1, each pen of Type B at a profit of Re 1, and each pen of Type C at a loss of Rs 3 and made an overall profit of Rs 27.

Reason (R): Framing and solving the three possible linear equations we will find that we get a unique solution.

- Ans**  1. Assertion (A) is true and Reason (R) is false.
-  2.
- Both Assertion (A) and Reason (R) are true but Reason (R) is not a correct explanation of Assertion (A).
-  3.
- Both Assertion (A) and Reason (R) are true and Reason (R) is a correct explanation of Assertion (A).
-  4. Assertion (A) is false and Reason (R) is true.

Question ID : 630680552797
Option 1 ID : 6306802161284
Option 2 ID : 6306802161283
Option 3 ID : 6306802161282
Option 4 ID : 6306802161285
Status : Not Answered
Chosen Option : --

Q.15 A shop sells only steamed momos and fried momos. On a particular day the ratio of the numbers of steamed momos and fried momos sold from that shop was 5 : 4. How many steamed momos were sold from the shop on that day?

Which one of the following is correct in respect of the Question and the Statements given below?

Statement 1: If the number of steamed momos were to double, the ratio of the numbers of steamed momos and fried momos sold from that shop would become 5 : 2.

Statement 2: If the number of fried momos sold was at least 13 more while the number of steamed momos sold stayed the same, then the number of fried momos sold would have been more than the number of steamed momos sold.

Ans  1.

The data in Statement 2 alone are sufficient answer the question.

 2.

The data in Statement 1 and Statement 2 both taken together are not sufficient to answer the question.

 3.

The data either in Statement 1 alone or in Statement 2 alone are sufficient to answer the question.

 4.

The data in Statement 1 alone are sufficient to answer the question.

Question ID : 630680552794

Option 1 ID : 6306802161271

Option 2 ID : 6306802161273

Option 3 ID : 6306802161272

Option 4 ID : 6306802161270

Status : Not Answered

Chosen Option : --

Q.16 X's income is 44% more than that of Y. What percent is Y's income less than X's?

Ans  1. 32.5%

 2. 33%

 3. 30.5%

 4. 20.4%

Question ID : 630680552772

Option 1 ID : 6306802161183

Option 2 ID : 6306802161185

Option 3 ID : 6306802161182

Option 4 ID : 6306802161184

Status : Answered

Chosen Option : 3

Q.17 If $a^3 - b^3 = 602$ and $a - b = 2$, then find the value of $(a^2 + b^2)$.

Ans  1. 202

 2. 156

 3. 260

 4. 240

Question ID : 630680552777

Option 1 ID : 6306802161203

Option 2 ID : 6306802161202

Option 3 ID : 6306802161204

Option 4 ID : 6306802161205

Status : Answered

Chosen Option : 1

Q.18 The team of A, B, and C was supposed to complete a piece of work. Working alone, A could have completed the same work in 190 hours, B could have completed the same work in 285 hours, while C could have completed it in 342 hours. The trio decided that only one of the three would work at any point of time. In the first cycle of three days A worked for two hours on Day 1, B worked for two hours on Day 2, and C worked for two hours on Day 3. In the second cycle of three days A worked for four hours on Day 1, B worked for four hours on Day 2, and C worked for four hours on Day 3. In the third cycle of three days A worked for six hours on Day 1, B worked for six hours on Day 2, and C worked for six hours on Day 3. This continued till the piece of work was completed, with each working for $2n$ hours in Cycle n , the sole exception being made, if necessary, in the last cycle, as the work may get completed mid-cycle. What was the total number of days needed for the work to be completed?

- Ans**
- ✓ 1. 26
 - ✗ 2. 25.5
 - ✗ 3. 26.4
 - ✗ 4. 25.8

Question ID : 630680552795

Option 1 ID : 6306802161276

Option 2 ID : 6306802161274

Option 3 ID : 6306802161277

Option 4 ID : 6306802161275

Status : Not Answered

Chosen Option : --

Q.19 Three natural numbers are such that one-third of the first number is equal to two-fifths of the second, and two-thirds of the second number is equal to one-seventh of the third. The sum of five times the third number and half of the square of the first number is 1348. What is the value of the second number?

- Ans**
- ✗ 1. 24
 - ✓ 2. 30
 - ✗ 3. 15
 - ✗ 4. 21

Question ID : 630680552793

Option 1 ID : 6306802161269

Option 2 ID : 6306802161267

Option 3 ID : 6306802161266

Option 4 ID : 6306802161268

Status : Answered

Chosen Option : 2

Q.20 If 22% of x is equal to 66% of y , then find the value of $x : y$.

- Ans**
- ✗ 1. 1 : 3
 - ✗ 2. 11 : 6
 - ✓ 3. 3 : 1
 - ✗ 4. 2 : 5

Question ID : 630680552775

Option 1 ID : 6306802161195

Option 2 ID : 6306802161197

Option 3 ID : 6306802161194

Option 4 ID : 6306802161196

Status : Answered

Chosen Option : 3

Q.1 A mixture contains alcohol and water in the ratio 4: 7. If it contains 9 litres more water than alcohol, then find the quantity of water in the mixture.

- Ans**  1. 24 litres
 2. 21 litres
 3. 20 litres
 4. 18 litres

Question ID : 630680552785
Option 1 ID : 6306802161234
Option 2 ID : 6306802161235
Option 3 ID : 6306802161237
Option 4 ID : 6306802161236
Status : **Not Answered**
Chosen Option : --

Q.2 p% of Bobby's income is equal to q% of Ron's income. If Bobby's income was Rs y less than what it is and Ron's income was Rs z more than what it is, the ratio of the incomes of Bobby and Ron would have been m : n. The actual combined income of the duo is Rs x.

Which one of the following is correct in respect of the Question and the Statements given below?

Statement 1: The values of p, q, y, z, m, n and x are respectively 40, 56, 3200, 2000, 6, 5 and 67200.

Statement 2: The values of p, q, y, z, m, n and x are respectively 20, 32, 1200, 5500, 4, 3 and 83200.

- Ans**  1. Neither of the two statements is feasible.
 2. Only Statement 2 is feasible.
 3. Only Statement 1 is feasible.
 4. Both Statements are feasible.

Question ID : 630680552801
Option 1 ID : 6306802161301
Option 2 ID : 6306802161299
Option 3 ID : 6306802161298
Option 4 ID : 6306802161300
Status : **Not Answered**
Chosen Option : --

Q.3 A shopkeeper buys three varieties of pulses at Rs 132, Rs 160 and Rs 192 per kg respectively and mixes them in the ratio 9:2:1. The marked price per kg of the blended pulses is fixed at Rs 238, the shopkeeper gives a discount equal to $\frac{1}{n}$ of the marked price and still earns a profit of 40%. What is the value of n?

- Ans**  1. 5
 2. 6
 3. 4
 4. 7

Question ID : 630680552802
Option 1 ID : 6306802161304
Option 2 ID : 6306802161303
Option 3 ID : 6306802161305
Option 4 ID : 6306802161302
Status : **Not Answered**
Chosen Option : --

Q.4 Find the least number that should be added to 567201, so that the sum is exactly divisible by 9.

- Ans** ☒ 1. 4
☒ 2. 5
☒ 3. 6
☒ 4. 8

Question ID : 630680552781
Option 1 ID : 6306802161220
Option 2 ID : 6306802161219
Option 3 ID : 6306802161218
Option 4 ID : 6306802161221
Status : Answered
Chosen Option : 3

Q.5 In how many years will a sum of money be 12 times itself at 44% per annum simple interest?

- Ans** ☒ 1. 35 years
☒ 2. 25 years
☒ 3. 30 years
☒ 4. 20 years

Question ID : 630680552779
Option 1 ID : 6306802161210
Option 2 ID : 6306802161211
Option 3 ID : 6306802161212
Option 4 ID : 6306802161213
Status : Not Answered
Chosen Option : --

Q.6 By selling an article for ₹5600, one gains ₹ 1600. What is the gain percent?

- Ans** ☒ 1. 45%
☒ 2. 40%
☒ 3. 35%
☒ 4. 30%

Question ID : 630680552784
Option 1 ID : 6306802161231
Option 2 ID : 6306802161233
Option 3 ID : 6306802161232
Option 4 ID : 6306802161230
Status : Answered
Chosen Option : 2

Q.7 Ravi and Rajiv decided to run a 960 m long race on a track as long as the length of the race.

Which of the statement(s) below is (are) sufficient to conclude that Rajiv caught up with Ravi with $\frac{3}{8}$ of the track length still to be covered?

Statement 1: Ravi is allowed to start 5 seconds before Rajiv started running.

Statement 2: Ravi ran at 8 m per second.

Statement 3: Rajiv ran at a speed of 10 m/s?

Ans  1. Statements 2 and 3 taken together are sufficient.

 2. All the three statements taken together is sufficient.

 3. Statements 1 and 3 taken together are sufficient.

 4.

Even all the three statements taken together is not sufficient.

Question ID : 630680552806
Option 1 ID : 6306802161321
Option 2 ID : 6306802161318
Option 3 ID : 6306802161320
Option 4 ID : 6306802161319
Status : Not Answered
Chosen Option : --

Q.8 On a particular day each of Danny, Edwin and Fahim sold three types of pens from their respective shops. Danny and Edwin sold an identical number of pens of Type A while Fahim sold twice as many pens of Type A as each of Danny and Edwin sold. The ratio of the numbers of pens of Type B sold by Danny, Edwin and Fahim was $\frac{3}{5} : 5 : 2$ respectively, while each of the trio sold an identical number of pens of Type C. The three sellers sold each of the types of pens at different prices per unit.

Assertion (A): It is possible that Danny sold each pen of Type A at a profit of Rs 2, each pen of Type B at a loss of Re 1, and each pen of Type C at a loss of Rs 12 and made an overall profit of Rs 125; Edwin sold each pen of Type A at a profit of Rs 2, each pen of Type B at a loss of Rs 6, and each pen of Type C at a profit of Rs 6 and made an overall profit of Rs 110; and Fahim sold each pen of Type A at a profit of Re 1, each pen of Type B at a profit of Re 1, and each pen of Type C at a loss of Rs 3 and made an overall profit of Rs 210.]

Reason (R): Framing and solving the three possible linear equations we will find that we get a unique solution.

Ans  1. Assertion (A) is true and Reason (R) is false.

 2.

Both Assertion (A) and Reason (R) are true but Reason (R) is not a correct explanation of Assertion (A).

 3. Assertion (A) is false and Reason (R) is true.

 4.

Both Assertion (A) and Reason (R) are true and Reason (R) is a correct explanation of Assertion (A).

Question ID : 630680552807
Option 1 ID : 6306802161324
Option 2 ID : 6306802161323
Option 3 ID : 6306802161325
Option 4 ID : 6306802161322
Status : Not Answered
Chosen Option : --

Q.9 The difference between the value of the number increased by 32% and the value of the number decreased by 28% is 180. Find the number.

- Ans**  1. 300
-  2. 320
-  3. 260
-  4. 280

Question ID : 630680552783
Option 1 ID : 6306802161226
Option 2 ID : 6306802161227
Option 3 ID : 6306802161228
Option 4 ID : 6306802161229
Status : **Not Answered**
Chosen Option : --

Q.10 The expense of a boarding house is partly fixed and partly varies with the number of boarders. What is the profit per head per month when there are 80 boarders?

Which one of the following is correct in respect of the Question and the Statements given below?

Statement 1: Each boarder pays \$ 780 a month.

Statement 2: The profit is \$108 per head per month when there are 50 boarders.

Statement 3: The profit is \$128 per head per month when there are 60 boarders.

- Ans**  1. Statement 2 and Statement 3 together are sufficient.
-  2.
- Statement 1 and any one of the other two statements taken together are sufficient.
-  3. All the three statements together are sufficient,
-  4.
- Even all the three statements taken together is still not sufficient.

Question ID : 630680552804
Option 1 ID : 6306802161311
Option 2 ID : 6306802161310
Option 3 ID : 6306802161312
Option 4 ID : 6306802161313
Status : **Answered**
Chosen Option : 2

Q.11 The square of the natural numbers are grouped as $1^2, (2^2, 3^2), (4^2, 5^2, 6^2), \dots, (\dots, 210^2)$

Which one of the following is correct in respect of the Question and the Statements?

Statement 1: The sum of the terms in the last group is 804660.

Statement 2: There are 20 groups in all.

Statement 3: The sum of all the terms till the last but one group is 2304415.

Ans  1.

Statements 1 and 2 are both correct, but Statement 3 is incorrect.

 2. All three statements are correct.

 Only Statement 2 is correct.

 4.

Statements 2 and 3 are both correct, but Statement 1 is incorrect.

Question ID : 630680552799

Option 1 ID : 6306802161293

Option 2 ID : 6306802161290

Option 3 ID : 6306802161291

Option 4 ID : 6306802161292

Status : Answered

Chosen Option : 2

Q.12 The ratio of the number of students in the morning shift and the afternoon shift of a school was 13 : 9. After 'n' students moved from the morning shift to the afternoon shift, the said ratio became 19 : 14. Now 153 new students sought admission in the school, and these students joined the morning and the afternoon shifts in the ratio 6 : 11 respectively. If the ratio of the number of students in the morning shift and the afternoon shift of the school after the new admissions became 24 : 19, find the value of 'n'.

Ans  1. 36

 2. 30

 3. 24

 4. 27

Question ID : 630680552803

Option 1 ID : 6306802161309

Option 2 ID : 6306802161308

Option 3 ID : 6306802161306

Option 4 ID : 6306802161307

Status : Marked For Review

Chosen Option : 3

Q.13 Harsh was four times as old as Dev six years ago. How old is Dev today if Harsh will be 40 years old 10 years later?

Ans  1. 13 years

 2. 12 years

 3. 14 years

 4. 11 years

Question ID : 630680552787

Option 1 ID : 6306802161244

Option 2 ID : 6306802161245

Option 3 ID : 6306802161242

Option 4 ID : 6306802161243

Status : Not Answered

Chosen Option : --

Q.14 In an election, Candidate M received 67% of the votes, and Candidate N received 33% of the votes. If the total votes were 10,000, find the difference in the number of votes received by each candidate.

- Ans**  1. 3500
 2. 3000
 3. 4200
 4. 3400

Question ID : **630680552782**
Option 1 ID : **6306802161223**
Option 2 ID : **6306802161224**
Option 3 ID : **6306802161225**
Option 4 ID : **6306802161222**
Status : **Not Answered**
Chosen Option : --

Q.15 A train, 364 meters long, passes a pole in 26 seconds. Find the speed of the train in meters per second.

- Ans**  1. 14 m/sec
 2. 11 m/sec
 3. 13 m/sec
 4. 15 m/sec

Question ID : **630680552786**
Option 1 ID : **6306802161241**
Option 2 ID : **6306802161240**
Option 3 ID : **6306802161239**
Option 4 ID : **6306802161238**
Status : **Answered**
Chosen Option : 1

Q.16 If the interest is compounded yearly, find the compound interest on the sum ₹ 30,000 at the rate of 4% per annum for 3 years.

- Ans**  1. ₹3525.88
 2. ₹4525.55
 3. ₹3745.92
 4. ₹3856.25

Question ID : **630680552780**
Option 1 ID : **6306802161215**
Option 2 ID : **6306802161217**
Option 3 ID : **6306802161214**
Option 4 ID : **6306802161216**
Status : **Answered**
Chosen Option : 3

Q.17 A salt and water mixture, of which 7.5% is salt, costs ₹22.50 per litre. Another salt and water mixture, of which 17.5% is salt, costs ₹z per litre. If the cost of twelve litres of a salt and water mixture, of which 22.5% is salt, is ₹450, find the value of z.

- Ans** ☒ 1. 32.50
☐ 2. 31.50
☐ 3. 30.60
☐ 4. 34.50

Question ID : 630680552798
Option 1 ID : 6306802161289
Option 2 ID : 6306802161286
Option 3 ID : 6306802161287
Option 4 ID : 6306802161288
Status : Not Answered
Chosen Option : --

Q.18 If $x = 7 + 7^{\frac{2}{3}} + 7^{\frac{1}{3}}$, then which of the options below is correct?

- Ans** ☐ 1. $x^3 + 21x^2 - 126x - 252 = 0$
☐ 2. $x^3 + 21x^2 - 126x + 252 = 0$
☒ 3. $x^3 - 21x^2 + 126x - 252 = 0$
☐ 4. $x^3 - 21x^2 - 126x + 252 = 0$

Question ID : 630680552800
Option 1 ID : 6306802161295
Option 2 ID : 6306802161296
Option 3 ID : 6306802161297
Option 4 ID : 6306802161294
Status : Not Answered
Chosen Option : --

Q.19 The average of five numbers is 87.8. The average of the first two numbers is 81.5 and the average of the last two numbers is 93.5. What is the third number?

- Ans** ☐ 1. 88
☐ 2. 90
☒ 3. 89
☐ 4. 93

Question ID : 630680552778
Option 1 ID : 6306802161208
Option 2 ID : 6306802161209
Option 3 ID : 6306802161207
Option 4 ID : 6306802161206
Status : Not Answered
Chosen Option : --

Q.20 A cistern can be filled by one of two pipes in 52 minutes and by the other pipe in 60 minutes. Both pipes are opened together for a certain time but being particularly clogged only $\frac{13}{20}$ of the full quantity of water flows through the first pipe and only $\frac{3}{4}$ of the full quantity of water flows through the second pipe. The obstructions, however, were suddenly removed in both the pipes after some time and the cistern got filled in $15\frac{3}{5}$ minutes from that moment. For how many minutes did the pipes remain clogged?

Ans

 1. $17\frac{4}{5}$

 2. $17\frac{1}{5}$

 3. $17\frac{3}{5}$

 4. $17\frac{2}{5}$

Question ID : **630680552805**

Option 1 ID : **6306802161317**

Option 2 ID : **6306802161314**

Option 3 ID : **6306802161316**

Option 4 ID : **6306802161315**

Status : **Not Answered**

Chosen Option : --

Q.1 (x, y) is a pair of positive integers such that $HCF(x, y) + LCM(x, y) = 187$ and $x > y$.

Which one of the following is correct in respect of the Question and the Statements given below?

Statement 1: There are three possible values of $HCF(x, y)$.

Statement 2: The minimum value of $(x + y)$ is 37.

Statement 3: There are 7 pairs of (x, y) that satisfy the given conditions.

- Ans**
- ☒ 1. Statements 1 and 3 are correct but Statement 2 is incorrect.
 - ☒ 2. Statement 1 is incorrect but Statements 2 and 3 are correct.
 - ☒ 3. Only Statements 1 and 2 are correct.
 - ☒ 4. All three statements are correct.

Question ID : 630680554987

Option 1 ID : 6306802169526

Option 2 ID : 6306802169527

Option 3 ID : 6306802169525

Option 4 ID : 6306802169524

Status : Not Answered

Chosen Option : --

Q.2 The prices of a cream and a shampoo are in the ratio 19: 11. The price of the cream is ₹ 160 more than the price of the shampoo. What is the price of a cream?

- Ans**
- ☒ 1. ₹340
 - ☒ 2. ₹360
 - ☒ 3. ₹400
 - ☒ 4. ₹380

Question ID : 630680554970

Option 1 ID : 6306802169458

Option 2 ID : 6306802169456

Option 3 ID : 6306802169459

Option 4 ID : 6306802169457

Status : Answered

Chosen Option : 4

Q.3 A sum becomes ₹ 8640 after two years and ₹ 12,441.6 after four years at the same compound interest. Find the sum.

- Ans**
- ☒ 1. ₹5000
 - ☒ 2. ₹6000
 - ☒ 3. ₹5800
 - ☒ 4. ₹6300

Question ID : 630680554968

Option 1 ID : 6306802169449

Option 2 ID : 6306802169451

Option 3 ID : 6306802169448

Option 4 ID : 6306802169450

Status : Answered

Chosen Option : 2

Q.4

Find the positive square root of $92 - 24\sqrt{6} - 4\sqrt{2}$

Ans

✓ 1. $6 + 2\sqrt{2}$

✗ 2. $8 - 2\sqrt{2}$

✗ 3. $8 - 4\sqrt{2}$

✗ 4. $6 - 2\sqrt{2}$

Question ID : 630680554988

Option 1 ID : 6306802169530

Option 2 ID : 6306802169528

Option 3 ID : 6306802169531

Option 4 ID : 6306802169529

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.5

35 men and 49 women, working together, can do a job in 84 days while 48 men and 84 women, working together, can do the same job in 56 days. In how many days can the same job be done by 30 men and 21 women, working together?

Ans

✗ 1. $120\frac{6}{13}$

✓ 2. $120\frac{8}{13}$

✗ 3. $120\frac{7}{13}$

✗ 4. $120\frac{9}{13}$

Question ID : 630680554993

Option 1 ID : 6306802169551

Option 2 ID : 6306802169549

Option 3 ID : 6306802169550

Option 4 ID : 6306802169548

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.6

A salt and water mixture, of which 12.5% is salt, costs ₹22 per litre. Another salt and water mixture, of which 27.5% is salt, costs ₹38.50 per litre. How many litres of a salt and water mixture, of which 30% is salt, can be bought for ₹165?

Ans

✗ 1. 5

✗ 2. 4.5

✓ 3. 4

✗ 4. 3.5

Question ID : 630680554986

Option 1 ID : 6306802169523

Option 2 ID : 6306802169522

Option 3 ID : 6306802169521

Option 4 ID : 6306802169520

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.7 If Naman had purchased 25 articles for ₹ 22 and sold all the articles at the rate of 22 for ₹ 25, then find his approximate profit percentage.

- Ans**  1. 30.2%
 2. 21.5%
 3. 20.5%
 4. 29.1%

Question ID : 630680554972
Option 1 ID : 6306802169464
Option 2 ID : 6306802169465
Option 3 ID : 6306802169467
Option 4 ID : 6306802169466
Status : Answered
Chosen Option : 3

Q.8 Excluding stoppages, the speed of a bus is 152 km/hr. and including stoppages, it is 114 km/hr. For how many minutes does the bus stop per hour?

- Ans**  1. 15 minutes
 2. 9 minutes
 3. 14 minutes
 4. 10 minutes

Question ID : 630680554974
Option 1 ID : 6306802169475
Option 2 ID : 6306802169474
Option 3 ID : 6306802169473
Option 4 ID : 6306802169472
Status : Answered
Chosen Option : 1

Q.9 A shopkeeper buys three varieties of sugar at Rs 99, Rs 120 and Rs 144 per kg respectively and mixes them in the ratio 9 : 2 : 1. In order to earn a y% profit after giving a discount equal to a sixth of the marked price, the marked price per kg of the blended sugar is fixed at Rs 178.50. What is the value of y?

- Ans**  1. 35
 2. 40
 3. 45
 4. 36

Question ID : 630680554990
Option 1 ID : 6306802169536
Option 2 ID : 6306802169539
Option 3 ID : 6306802169538
Option 4 ID : 6306802169537
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.10 Ravi and Rajiv decided to run a 960 m long race on a track as long as the length of the race.

Which of the statement(s) below is (are) sufficient to conclude that Rajiv ran at a speed of 10 m/s?

Statement 1: Ravi is allowed to start 5 seconds before Rajiv started running.

Statement 2: Ravi ran at 8 m per second.

Statement 3: Rajiv caught up with Ravi with $\frac{3}{8}$ of the track length still to be covered.

Ans  1.

Even all the three statements taken together is not sufficient.

 2. All the three statements taken together is sufficient.

 3. Statements 2 and 3 taken together are sufficient.

 4. Statements 1 and 3 taken together are sufficient.

Question ID : 630680554994

Option 1 ID : 6306802169555

Option 2 ID : 6306802169554

Option 3 ID : 6306802169553

Option 4 ID : 6306802169552

Status : Not Answered

Chosen Option : --

Q.11 The greatest number of wagons that can be attached to a locomotive engine if the speed is not to fall below 14 km. per hour is given as 144.

Which one of the following is correct in respect of the Question and the Statements given below?

Statement 1: The locomotive engine without any wagon can go at a rate of 50 km per hour.

Statement 2: The speed of the locomotive diminishes by a quantity which varies as the square root of the number of wagons attached.

Statement 3: With 16 wagons its speed is 38 km. per hour.

Ans  1. All the three statements together are sufficient,

 2.

Even all the three statements taken together is still not sufficient.

 3. Statement 2 and Statement 3 taken together are sufficient.

 4. Statement 1 and Statement 3 taken together are sufficient.

Question ID : 630680554992

Option 1 ID : 6306802169546

Option 2 ID : 6306802169547

Option 3 ID : 6306802169545

Option 4 ID : 6306802169544

Status : Not Answered

Chosen Option : --

Q.12 The product of two co-prime numbers is 1073. Find their L.C.M.

- Ans** ☒ 1. 1
☒ 2. 1073
☒ 3. 29
☒ 4. 37

Question ID : 630680554969
Option 1 ID : 6306802169452
Option 2 ID : 6306802169453
Option 3 ID : 6306802169454
Option 4 ID : 6306802169455
Status : Answered
Chosen Option : 2

Q.13 Jay lent some amount of money at 14% simple interest and an equal amount of money at 20% simple interest each for two years. If his total interest was, ₹ 9520, then find the amount of money that was lent in each case.

- Ans** ☒ 1. ₹15,000
☒ 2. ₹13,000
☒ 3. ₹16,000
☒ 4. ₹14,000

Question ID : 630680554967
Option 1 ID : 6306802169445
Option 2 ID : 6306802169444
Option 3 ID : 6306802169446
Option 4 ID : 6306802169447
Status : Answered
Chosen Option : 4

Q.14 A number increased by 57% gives 942. Find the number.

- Ans** ☒ 1. 600
☒ 2. 700
☒ 3. 800
☒ 4. 500

Question ID : 630680554971
Option 1 ID : 6306802169460
Option 2 ID : 6306802169463
Option 3 ID : 6306802169462
Option 4 ID : 6306802169461
Status : Answered
Chosen Option : 1

Q.15 Prakash and Inaya started a business investing ₹ 77,000 and ₹ 84,000 respectively. In what ratio the profit earned after 2 years be divided between Prakash and Inaya respectively?

- Ans** ☒ 1. 12 : 11
☒ 2. 12 : 7
☒ 3. 11 : 7
☒ 4. 11 : 12

Question ID : 630680554973
Option 1 ID : 6306802169470
Option 2 ID : 6306802169471
Option 3 ID : 6306802169469
Option 4 ID : 6306802169468
Status : Answered
Chosen Option : 4

Q.16 On a particular day each of Danish, Ethan and Farhan sold three types of pens from their respective shops. Danish and Ethan sold an identical number of pens of Type A while Farhan sold twice as many pens of Type A as Danish and Ethan together sold. The ratio of the numbers of pens of Type B sold by Danish, Ethan and Farhan was 3 : 4 : 1 respectively, and Ethan and Farhan sold an identical number of pens of Type C each, while Danish sold thrice as many pens of Type C as each of Ethan and Farhan sold. The three sellers sold each of the types of pens at different prices per unit.

Assertion (A): It is possible that Danish sold each pen of Type A at a loss of Rs 2, each pen of Type B at a profit of Rs 4, and each pen of Type C at a loss of Rs 5 and made an overall profit of Rs 144; Ethan sold each pen of Type A at a profit of Rs 5, each pen of Type B at a loss of Re 1, and each pen of Type C at a profit of Rs 7 and made an overall profit of Rs 13; and Farhan sold each pen of Type A at a profit of Re 3, each pen of Type B at a profit of Re 4, and each pen of Type C at a loss of Rs 6 and made an overall profit of Rs 240.

Reason (R): Framing and solving the three possible linear equations we will find that we get a unique solution.

- Ans** ☒ 1.
Both Assertion (A) and Reason (R) are true but Reason (R) is not a correct explanation of Assertion (A).
☒ 2. Assertion (A) is false and Reason (R) is true.
☒ 3.
Both Assertion (A) and Reason (R) are true and Reason (R) is a correct explanation of Assertion (A).
☒ 4. Assertion (A) is true and Reason (R) is false.

Question ID : 630680554995
Option 1 ID : 6306802169557
Option 2 ID : 6306802169559
Option 3 ID : 6306802169556
Option 4 ID : 6306802169558
Status : Not Answered
Chosen Option : --

Q.17 In a 60-liter mixture of milk and water, the water content is 40%. How many litres of water should be added to increase the water content to 60%?

- Ans** ☒ 1. 25 litres
☒ 2. 30 litres
☒ 3. 15 litres
☒ 4. 20 litres

Question ID : 630680554966
Option 1 ID : 6306802169441
Option 2 ID : 6306802169443
Option 3 ID : 6306802169442
Option 4 ID : 6306802169440
Status : Answered
Chosen Option : 2

Q.18 Arun and Devika bought an item each at identical prices. Arun marked his item at $p\%$ above his purchase price and then offered a discount of $q\%$ on the marked price. Devika claimed to offer her item for sale at $y\%$ below her purchase price but then added $z\%$ of the reduced offer price as handling charges. Eventually both sold their items at the same nominal price.

Which one of the following is correct in respect of the Question and the Statements given below?

Statement 1: The values of p , q , y and z are respectively given as 25, 8, 20 and 43.75

Statement 2: The values of p , q , y and z are respectively given as 35, 20, 10 and 20

- Ans**
- ☒ 1. Only Statement 1 is feasible.
 - ☒ 2. Neither of the two statements is feasible.
 - ☒ 3. Both Statements are feasible.
 - ☒ 4. Only Statement 2 is feasible.

Question ID : 630680554989
Option 1 ID : 6306802169532
Option 2 ID : 6306802169535
Option 3 ID : 6306802169534
Option 4 ID : 6306802169533
Status : Not Answered
Chosen Option : --

Q.19 The sum of the squares of two numbers is 545 and the square of their difference is 1. Find the product of the two numbers.

- Ans**
- ☒ 1. 286
 - ☒ 2. 282
 - ☒ 3. 256
 - ☒ 4. 272

Question ID : 630680554975
Option 1 ID : 6306802169479
Option 2 ID : 6306802169476
Option 3 ID : 6306802169478
Option 4 ID : 6306802169477
Status : Answered
Chosen Option : 4

Q.20 A, B and C enter a partnership with initial investments in the ratio $\frac{11}{5} : \frac{7}{2} : \frac{15}{8}$. After 4 months A raises her share of investment by 62.5%. If the total profit after 12 months since the beginning of the partnership is Rs. 138584, then how much (in Rs.) does A get as her share of profit?

- Ans**
- ☒ 1. 50874
 - ☒ 2. 50864
 - ☒ 3. 50844
 - ☒ 4. 50884

Question ID : 630680554991
Option 1 ID : 6306802169541
Option 2 ID : 6306802169542
Option 3 ID : 6306802169543
Option 4 ID : 6306802169540
Status : Not Answered
Chosen Option : --

Q.1 A shopkeeper buys three varieties of pulses at Rs 132, Rs 160 and Rs y per kg respectively and mixes them in the ratio 9 : 2 : 1. The marked price per kg of the blended pulses is fixed at Rs 238, the shopkeeper gives a discount equal to $\frac{1}{6}$ of the marked price and still earns a profit of 40%. What is the value of y?

- Ans** ☒ 1. 192
☒ 2. 196
☒ 3. 200
☒ 4. 184

Question ID : 630680555000
Option 1 ID : 6306802169579
Option 2 ID : 6306802169578
Option 3 ID : 6306802169576
Option 4 ID : 6306802169577
Status : Answered
Chosen Option : 1

Q.2 A certain sum of money amounts to 13/5 of itself in 10 years on simple interest. What is the rate of interest per annum?

- Ans** ☒ 1. 17%
☒ 2. 16%
☒ 3. 18%
☒ 4. 15%

Question ID : 630680554977
Option 1 ID : 6306802169487
Option 2 ID : 6306802169486
Option 3 ID : 6306802169485
Option 4 ID : 6306802169484
Status : Answered
Chosen Option : 2

Q.3 Find the difference between CI and SI on ₹ 28,000, at 20% per annum, compounded half-yearly for 1 year.

- Ans** ☒ 1. ₹300
☒ 2. ₹270
☒ 3. ₹280
☒ 4. ₹250

Question ID : 630680554978
Option 1 ID : 6306802169491
Option 2 ID : 6306802169490
Option 3 ID : 6306802169489
Option 4 ID : 6306802169488
Status : Not Answered
Chosen Option : --

Q.4 From a cask filled with 867 litres of wine, y litres are first drawn and replaced with water. After the first replacement the ratio of wine and water in the cask, when expressed in the lowest form, is given as a : b. From this mixture y litres are drawn and replaced with water. The ratio of wine to water in the cask after the second replacement, when expressed in the lowest form, is given as 169 : 120. Find the value of (y + a + b).

- Ans**  1. 220
 2. 222
 3. 221
 4. 224

Question ID : 630680554996
Option 1 ID : 6306802169563
Option 2 ID : 6306802169561
Option 3 ID : 6306802169562
Option 4 ID : 6306802169560
Status : Not Answered
Chosen Option : --

Q.5 Daya is 5 times as old as his son. Six years hence the sum of their ages will be 72 years. What is the present age of Daya's son?

- Ans**  1. 13 years
 2. 10 years
 3. 8 years
 4. 5 years

Question ID : 630680554985
Option 1 ID : 6306802169519
Option 2 ID : 6306802169516
Option 3 ID : 6306802169518
Option 4 ID : 6306802169517
Status : Answered
Chosen Option : 2

Q.6 The Product of two whole numbers is 1083 and their HCF is 19. Find the LCM.

- Ans**  1. 19
 2. 1083
 3. 38
 4. 57

Question ID : 630680554979
Option 1 ID : 6306802169492
Option 2 ID : 6306802169494
Option 3 ID : 6306802169493
Option 4 ID : 6306802169495
Status : Answered
Chosen Option : 4

Q.7 An item costing ₹ 1640 is being sold at a 15% loss. If the price is further reduced by 40%, then find the selling price.

- Ans**  1. ₹665.8
 2. ₹756.2
 3. ₹1073.2
 4. ₹836.4

Question ID : 630680554982
Option 1 ID : 6306802169506
Option 2 ID : 6306802169504
Option 3 ID : 6306802169507
Option 4 ID : 6306802169505
Status : Answered
Chosen Option : 1

Q.8 In an election, Candidate A received 27% of the votes, and Candidate B received 73% of the votes. If the difference in their votes was 1380, find the total number of votes.

- Ans**  1. 2500
 2. 2900
 3. 3700
 4. 3000

Question ID : 630680554980
Option 1 ID : 6306802169498
Option 2 ID : 6306802169496
Option 3 ID : 6306802169497
Option 4 ID : 6306802169499
Status : Answered
Chosen Option : 4

Q.9 A train 348 m long is running at a speed of 36 km/hr. It crosses a bridge in 50 seconds. What is the length of the bridge?

- Ans**  1. 176 m
 2. 152 m
 3. 146 m
 4. 103 m

Question ID : 630680554984
Option 1 ID : 6306802169514
Option 2 ID : 6306802169512
Option 3 ID : 6306802169513
Option 4 ID : 6306802169515
Status : Answered
Chosen Option : 2

Q.10 Akash and Dinesh started a business investing ₹ 17,500 and ₹ 35,000 respectively. At the end of the year, the total profit was ₹ 9900. Find the share of Dinesh.

- Ans**  1. ₹5500
 2. ₹6600
 3. ₹5600
 4. ₹6000

Question ID : 630680554983
Option 1 ID : 6306802169508
Option 2 ID : 6306802169511
Option 3 ID : 6306802169510
Option 4 ID : 6306802169509
Status : Answered
Chosen Option : 2

Q.11 A, B and C enter a partnership with initial investments in the ratio $\frac{11}{5} : \frac{7}{2} : \frac{15}{8}$. After 4 months A raises her share of investment by p%. If the total profit after 12 months since the beginning of the partnership is Rs. 138584, and A gets Rs. 50864 as her share of profit, what is the value of p?

- Ans**  1. 75
 2. 62.5
 3. 60
 4. 67.5

Question ID : 630680555001
Option 1 ID : 6306802169581
Option 2 ID : 6306802169583
Option 3 ID : 6306802169582
Option 4 ID : 6306802169580
Status : Not Answered
Chosen Option : --

Q.12 The average of 11 numbers is 44.5. If the average of the first six numbers is 42.5 and that of the last six numbers is 45, then find the middle number.

- Ans**  1. 29.5
 2. 33.5
 3. 35.5
 4. 38.5

Question ID : 630680554976
Option 1 ID : 6306802169482
Option 2 ID : 6306802169480
Option 3 ID : 6306802169483
Option 4 ID : 6306802169481
Status : Answered
Chosen Option : 3

Q.13 On a particular day each of Danish, Ethan and Farhan sold three types of pens from their respective shops. Danish and Ethan sold an identical number of pens of Type A while Farhan sold $\frac{3}{2}$ times as many pens of Type A as Danish and Ethan together sold. The ratio of the numbers of pens of Type B sold by Danish, Ethan and Farhan was 4 : 3 : 1 respectively, and Danish and Farhan sold an identical number of pens of Type C each, while Ethan sold $\frac{5}{2}$ as many pens of Type C as each of Ethan and Farhan sold. The three sellers sold each of the types of pens at different prices per unit.

Assertion (A): It is possible that Danish sold each pen of Type A at a loss of Re 1, each pen of Type B at a profit of Rs 5, and each pen of Type C at a loss of Rs 3 and made an overall profit of Rs 114; Ethan sold each pen of Type A at a profit of Rs 4, each pen of Type B at a loss of Rs 3, and each pen of Type C at a profit of Rs 5 and made an overall profit of Rs 267; and Farhan sold each pen of Type A at a profit of Rs 8, each pen of Type B at a profit of Rs 5, and each pen of Type C at a loss of Rs 7 and made an overall profit of Rs 60.

Reason (R): Framing and solving the three possible linear equations we will find that we get a unique solution.

Ans  1.

Both Assertion (A) and Reason (R) are true and Reason (R) is a correct explanation of Assertion (A).

 2.

Both Assertion (A) and Reason (R) are true but Reason (R) is not a correct explanation of Assertion (A).

 3. Assertion (A) is false and Reason (R) is true.

 4. Assertion (A) is true and Reason (R) is false.

Question ID : 630680555005

Option 1 ID : 6306802169596

Option 2 ID : 6306802169597

Option 3 ID : 6306802169599

Option 4 ID : 6306802169598

Status : Not Answered

Chosen Option : --

Q.14 Find the positive square root of $207 - 54\sqrt{6} + 4\sqrt{2}$

Ans  1. $9 - 3\sqrt{3}$

 2. $9 - 2\sqrt{3}$

 3. $9 - 2\sqrt{2}$

 4. $9 - 3\sqrt{2}$

Question ID : 630680554998

Option 1 ID : 6306802169571

Option 2 ID : 6306802169570

Option 3 ID : 6306802169568

Option 4 ID : 6306802169569

Status : Not Answered

Chosen Option : --

Q.15 If the radius of a circle is decreased by 15%. By what percent area of the circle decrease?

Ans  1. 25.25%

 2. 27.75%

 3. 35.5%

 4. 20.5%

Question ID : 630680554981

Option 1 ID : 6306802169500

Option 2 ID : 6306802169502

Option 3 ID : 6306802169501

Option 4 ID : 6306802169503

Status : Answered

Chosen Option : 2

Q.16 On the sale of a certain item a shopkeeper offered two successive discounts such that in percentage terms the second discount was only $\frac{1}{n}$ th of the first. If the overall discount was p% of the marked price of the item, then the selling price of the item after applying only the first discount was Rs y and the marked price of the item was Rs x.

Which one of the following is correct in respect of the Question and the Statements given below?

Statement 1: The values of n, p, y and x are respectively given as 3, 15.52, 8900 and 10000.

Statement 2: The values of n, p, y and x are respectively given as 4, 21.69, 12730 and 15500.

- Ans**  1. Only Statement 1 is feasible.
-  2. Only Statement 2 is feasible.
-  3. Neither of the two statements is feasible.
-  4. Both Statements are feasible.

Question ID : 630680554999
Option 1 ID : 6306802169572
Option 2 ID : 6306802169573
Option 3 ID : 6306802169575
Option 4 ID : 6306802169574
Status : Not Answered
Chosen Option : --

Q.17 (x, y) is a pair of positive integers such that $\text{LCM}(x, y) - \text{HCF}(x, y) = 143$ and $x > y$.

Which one of the following is correct in respect of the Question and the Statements given below?

Statement 1: There are three possible values of HCF (x, y).

Statement 2: The minimum value of (x - y) is 7.

Statement 3: There are 6 pairs of (x, y) that satisfy the given conditions.

- Ans**  1.
- Statement 1 is incorrect but Statements 2 and 3 are correct.
-  2. Only Statements 1 and 2 are correct.
-  3.
- Statements 1 and 3 are correct but Statement 2 is incorrect.
-  4. All three statements are correct.

Question ID : 630680554997
Option 1 ID : 6306802169567
Option 2 ID : 6306802169565
Option 3 ID : 6306802169566
Option 4 ID : 6306802169564
Status : Not Answered
Chosen Option : --

Q.18 P and Q can do a job in 90 days, Q and R can do it in 112.5 days, while P and R can do it in 150 days. X is five times as efficient as P, Y is two-thirds as efficient as Q, and Z is 2.5 times as efficient as R. Determine the number of days required to complete the same job if X, Y and Z work together.

Ans

✓ 1. $31\frac{1}{29}$

✗ 2. $31\frac{2}{29}$

✗ 3. $30\frac{28}{29}$

✗ 4. $31\frac{3}{29}$

Question ID : 630680555003

Option 1 ID : 6306802169591

Option 2 ID : 6306802169588

Option 3 ID : 6306802169589

Option 4 ID : 6306802169590

Status : Not Answered

Chosen Option : --

Q.19 Ravi and Rajiv decided to run a 960 m long race on a track as long as the length of the race.

Which of the statement(s) below is (are) sufficient to conclude that Rajiv ran at a speed of 10 m/s?

Statement 1: Rajiv gave Ravi an 80 m head start

Statement 2: Ravi ran at 8 m per second.

Statement 3: Rajiv caught up with Ravi with $\frac{3}{8}$ of the track length still to be covered.

Ans

✗ 1. All the three statements taken together is sufficient.

✗ 2. Statements 2 and 3 taken together are sufficient.

✗ 3. Statements 1 and 3 taken together are sufficient.

✓ 4.

Even all the three statements taken together is not sufficient.

Question ID : 630680555004

Option 1 ID : 6306802169594

Option 2 ID : 6306802169593

Option 3 ID : 6306802169592

Option 4 ID : 6306802169595

Status : Not Answered

Chosen Option : --

If w_1 is the weight with cargo of a ship of length l_1 , and w_2 and w_3 are the corresponding weights of ships having lengths l_2 and l_3 respectively, then

$$\left\{\frac{w_1}{l_1^2}\right\}(l_2 - l_3) + \left\{\frac{w_2}{l_2^2}\right\}(l_3 - l_1) + \left\{\frac{w_3}{l_3^2}\right\}(l_1 - l_2) = 0.$$

Which one of the following is correct in respect of the Question and the Statements given below?

Statement 1: The weight of an empty ship varies as the square of the length of the ship.

Statement 2: The weight of the ship's cargo varies as the cube of the length of the ship.

Statement 3: The weight of the ship with cargo varies as the sixth power of the length of the ship.

 Statement 1 and Statement 3 taken together are sufficient.



All the three statements together need to be true for sufficiency,



Statement 1 and Statement 2 taken together are sufficient.

 Statement 2 and Statement 3 taken together are sufficient.

Q.1 The initial value of a car is ₹450000. The value of car depreciates by 40 percent of its initial value each year. What will be its value after 2 years?

- Ans** ☒ 1. ₹162000
☐ 2. ₹154000
☐ 3. ₹192000
☐ 4. ₹184000

Question ID : 630680557663
Option 1 ID : 6306802179712
Option 2 ID : 6306802179714
Option 3 ID : 6306802179711
Option 4 ID : 6306802179713
Status : Answered
Chosen Option : 1

Q.2 The ratio of two numbers is 3 : 8. If the sum of both the numbers is 220, then what is the smaller number among both the numbers?

- Ans** ☐ 1. 20
☐ 2. 120
☒ 3. 60
☐ 4. 220

Question ID : 630680557710
Option 1 ID : 6306802179899
Option 2 ID : 6306802179900
Option 3 ID : 6306802179901
Option 4 ID : 6306802179902
Status : Answered
Chosen Option : 3

Q.3 If 75 percent of total articles are sold at a profit of 20 percent and remaining articles are sold at a loss of 20 percent, then what will be the overall profit percentage?

- Ans** ☐ 1. 8 percent
☒ 2. 10 percent
☐ 3. 5 percent
☐ 4. 12 percent

Question ID : 630680557703
Option 1 ID : 6306802179873
Option 2 ID : 6306802179874
Option 3 ID : 6306802179872
Option 4 ID : 6306802179871
Status : Answered
Chosen Option : 2

Q.4 The cost of item A is 40% more than that of item B and the cost of item B is 25% less than that of item C. The cost of A is decreased by 20%, while that of B and C are increased by 24% and 33%, respectively.

Statement I: The total new cost of items A, B and C is 24% less than the total initial cost of 2B and C.

Statement II: The total new cost of A and 2B is $33\frac{1}{3}\%$ more than the total initial cost of A and B.

Which of the above statements is/are correct?

- Ans**
- ☒ 1. Both I and II
 - ☒ 2. Neither I nor II
 - ☒ 3. II only
 - ☒ 4. I only

Question ID : 630680557593
Option 1 ID : 6306802179433
Option 2 ID : 6306802179434
Option 3 ID : 6306802179432
Option 4 ID : 6306802179431
Status : Not Answered
Chosen Option : --

Q.5 Consider all prime numbers between 1 and 100.

Which of the following statements is (are) correct?

- a. A number that is one greater than a multiple of 5 has a unit digit 3 or 6.
- b. The sum of all numbers which are one greater than a multiple of 5 is 215.
- c. The sum of all numbers which are one greater than a multiple of 5 and also one greater than a multiple of 6 is 92.

- Ans**
- ☒ 1. b only
 - ☒ 2. a and b
 - ☒ 3. a and c
 - ☒ 4. b and c

Question ID : 630680557580
Option 1 ID : 6306802179382
Option 2 ID : 6306802179379
Option 3 ID : 6306802179381
Option 4 ID : 6306802179380
Status : Not Answered
Chosen Option : --

Q.6 The average weight of a class of 13 students is 60 kg. If 2 new students of weight 42 kg and 48 kg are added to the class, then what will be the new average weight of 15 students?

- Ans**
- ☒ 1. 58.5 kg
 - ☒ 2. 59 kg
 - ☒ 3. 61 kg
 - ☒ 4. 58 kg

Question ID : 630680557641
Option 1 ID : 6306802179626
Option 2 ID : 6306802179623
Option 3 ID : 6306802179625
Option 4 ID : 6306802179624
Status : Answered
Chosen Option : 4

Q.7 The smallest prime number that is a divisor of 17408 is 2 ($17408 = 17 \times 2^{10}$). What is the sum of digits of the greatest prime number, which is a divisor of 17391?

- Ans** ☒ 1. 4
☒ 2. 5
☒ 3. 8
☒ 4. 6

Question ID : 630680557576
Option 1 ID : 6306802179363
Option 2 ID : 6306802179365
Option 3 ID : 6306802179364
Option 4 ID : 6306802179366
Status : Not Answered
Chosen Option : --

Q.8 A bus starts running with the initial speed of 6 km/hr and its speed increases every hour by certain amount. If it takes 14 hours to cover a distance of 630 km, then what will be hourly increment in the speed of bus?

- Ans** ☒ 1. 5 km/hr
☒ 2. 5.2 km/hr
☒ 3. 10 km/hr
☒ 4. 6 km/hr

Question ID : 630680557724
Option 1 ID : 6306802179955
Option 2 ID : 6306802179956
Option 3 ID : 6306802179957
Option 4 ID : 6306802179958
Status : Not Answered
Chosen Option : --

Q.9 27 percent of a number exceeds 13 percent of the same number by 56. What is the value of the number?

- Ans** ☒ 1. 380
☒ 2. 420
☒ 3. 360
☒ 4. 400

Question ID : 630680557678
Option 1 ID : 6306802179772
Option 2 ID : 6306802179774
Option 3 ID : 6306802179771
Option 4 ID : 6306802179773
Status : Answered
Chosen Option : 4

Q.10 An article is marked $x\%$ ($0 < x < 40$) above its cost price. It is sold by giving $\frac{x}{2}\%$ discount on its marked price. If there is a profit of $10\frac{1}{2}\%$, then what is the value of x ?

- Ans** ☒ 1. 20
☒ 2. 35
☒ 3. 25
☒ 4. 30

Question ID : 630680557601
Option 1 ID : 6306802179463
Option 2 ID : 6306802179466
Option 3 ID : 6306802179464
Option 4 ID : 6306802179465
Status : Not Answered
Chosen Option : --

Q.11 Select the option that is true regarding the following labelled Assertion (A) and Reason (R).

Assertion (A)	Reason (R)
The value of $\frac{[(3.9)^3 + 9 \times 1.3 \times 4.29 + 11.7 \times (1.1)^2 + 1.331]}{[1.23 \times 1.23 + 0.77(0.77 + 0.6 \times 4.1)]}$ Is 31.25.	Using $(a + b)^3 = a^3 + b^3 + 3ab(a + b)$ and $(x + y)^2 = x^2 + y^2 + 2xy$

- Ans** ☒ 1. Both A and R are true but R is not a correct explanation of A.
☒ 2. A is false and R is true.
☒ 3. A is true and R is false.
☒ 4. Both A and R are true and R is a correct explanation of A.

Question ID : 630680557630
Option 1 ID : 6306802179580
Option 2 ID : 6306802179582
Option 3 ID : 6306802179581
Option 4 ID : 6306802179579
Status : Not Answered
Chosen Option : --

Q.12 The product of two consecutive even numbers is 1088. What is the difference of the larger number and the square of the smaller number?

- Ans** ☒ 1. 768
☒ 2. 1024
☒ 3. 842
☒ 4. 990

Question ID : 630680557675
Option 1 ID : 6306802179759
Option 2 ID : 6306802179762
Option 3 ID : 6306802179760
Option 4 ID : 6306802179761
Status : Answered
Chosen Option : 4

Q.13 A circular path is 800 m long. Beena and Arun run in opposite directions from the same point A on the path at the same time. They continue to run after they meet for the first time. Beena runs another $53\frac{1}{3}$ seconds to arrive at A, while Arun runs another 2 minutes to get to point A.

Which of the following statements is/are correct?

Statement I: The speed of Beena is 6 m/sec.

Statement II: The ratio of the speeds of Arun and Beena is 2 : 3.

- Ans**
- ☒ 1. Neither I nor II
 - ☒ 2. II only
 - ☒ 3. I and II
 - ☒ 4. I only

Question ID : 630680557623
Option 1 ID : 6306802179554
Option 2 ID : 6306802179552
Option 3 ID : 6306802179553
Option 4 ID : 6306802179551
Status : Not Answered
Chosen Option : --

Q.14 A sum becomes 2.89 times of itself in 2 years when invested at compound interest (compounded annually). What is the annual rate of interest?

- Ans**
- ☒ 1. 80 percent
 - ☒ 2. 50 percent
 - ☒ 3. 40 percent
 - ☒ 4. 70 percent

Question ID : 630680557652
Option 1 ID : 6306802179667
Option 2 ID : 6306802179670
Option 3 ID : 6306802179669
Option 4 ID : 6306802179668
Status : Answered
Chosen Option : 4

Q.15 What is the value of $15^3 - 12^3 - 27$?

- Ans**
- ☒ 1. 1620
 - ☒ 2. 1480
 - ☒ 3. 1540
 - ☒ 4. 1340

Question ID : 630680557731
Option 1 ID : 6306802179983
Option 2 ID : 6306802179985
Option 3 ID : 6306802179984
Option 4 ID : 6306802179986
Status : Answered
Chosen Option : 1

Q.16 A vessel contains a solution of acid and water in the ratio 5 : 7. When 9 litres of the solution are taken out and the vessel is filled with equal quantity of acid, the ratio of acid and water in the vessel becomes 9 : 7. How many litres of solution was there in the vessel, initially?

- Ans**  1. 36
-  2. 24
-  3. 30
-  4. 42

Question ID : 630680557571
Option 1 ID : 6306802179345
Option 2 ID : 6306802179343
Option 3 ID : 6306802179344
Option 4 ID : 6306802179346
Status : Answered
Chosen Option : 3

Q.17 20 percent of P's income is equal to 10 percent of Q's income and 10 percent of Q's income is equal to 20 percent of R's income. If R's income is ₹13000, then what is the total income of P, Q and R?

- Ans**  1. 52000
-  2. 78000
-  3. 39000
-  4. 65000

Question ID : 630680557697
Option 1 ID : 6306802179848
Option 2 ID : 6306802179850
Option 3 ID : 6306802179847
Option 4 ID : 6306802179849
Status : Answered
Chosen Option : 1

Q.18 A question is given, followed by three statements labelled I, II and III. Identify which of the statements is/are sufficient to answer the question.

Question:

What is the value of $(a - c)$?

Statements:

- I. $(a + b) : c = 8 : 3$ and $a + b + c = 2772$
- II. $a : (a + c) = 2 : 5$
- III. $a : (b + c) = 34 : 43$

- Ans**  1. II and III
-  2. I and III only
-  3. I only
-  4. I and II or I and III

Question ID : 630680557613
Option 1 ID : 6306802179514
Option 2 ID : 6306802179512
Option 3 ID : 6306802179511
Option 4 ID : 6306802179513
Status : Answered
Chosen Option : 4

Q.19 A and B together can complete a certain work in 54 days. They work together for 12 days. The remaining work was completed by A, B and C together in 28 days. If the work done by B in 6 days is equal to the work done by C in 9 days, then A alone can complete two-thirds of the work in _____ days.

- Ans**
- ☒ 1. 216
 - ☒ 2. 180
 - ☒ 3. 108
 - ☒ 4. 144

Question ID : 630680557620

Option 1 ID : 6306802179540

Option 2 ID : 6306802179539

Option 3 ID : 6306802179542

Option 4 ID : 6306802179541

Status : Answered

Chosen Option : 4

Q.20 Total monthly income of A, B and C is ₹1,02,720. A, B and C save 20%, 10% and 25%, respectively of their incomes. If the ratio of their monthly expenditures is 3 : 4 : 5, then what is the sum (in ₹) of monthly incomes of A and C?

- Ans**
- ☒ 1. 72,000
 - ☒ 2. 61,875
 - ☒ 3. 60,000
 - ☒ 4. 56,250

Question ID : 630680557606

Option 1 ID : 6306802179486

Option 2 ID : 6306802179485

Option 3 ID : 6306802179484

Option 4 ID : 6306802179483

Status : Not Answered

Chosen Option : --

Section : Numerical Aptitude

Q.1 Let x be the least number of 5 digits, which when divided by 28, 40, 42 and 48, leaves remainder 6 in each case and x is divisible by 246. What is the sum of the digits of x ?

- Ans**  1. 15
 2. 14
 3. 12
 4. 13

Question ID : 630680557579
Option 1 ID : 6306802179378
Option 2 ID : 6306802179377
Option 3 ID : 6306802179375
Option 4 ID : 6306802179376
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.2 The present population of a town is 98000. It increases every year at the rate of 40 percent. What was the population of the town 2 years ago?

- Ans**  1. 55000
 2. 45000
 3. 60000
 4. 50000

Question ID : 630680557693
Option 1 ID : 6306802179831
Option 2 ID : 6306802179833
Option 3 ID : 6306802179832
Option 4 ID : 6306802179834
Status : Answered
Chosen Option : 4

Q.3 A shopkeeper sells an item by giving 25% discount on its marked price and still gains 35%. If the cost price of the item decreases by 10%, and he sells it by allowing 37.5% discount on the same marked price, then his gain percentage will be _____.

- Ans**  1. 20.5%
 2. 25.5%
 3. 25%
 4. 30%

Question ID : 630680557603
Option 1 ID : 6306802179471
Option 2 ID : 6306802179473
Option 3 ID : 6306802179472
Option 4 ID : 6306802179474
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.4 The ratio of M, N and S is 2 : 7 : 9 respectively. If their sum is 360, then what is the difference between M and S?

- Ans**  1. 160
 2. 180
 3. 140
 4. 120

Question ID : 630680557717
Option 1 ID : 6306802179927
Option 2 ID : 6306802179929
Option 3 ID : 6306802179928
Option 4 ID : 6306802179930
Status : Answered
Chosen Option : 3

Q.5 A certain sum (in ₹) is divided between A, B and C such that the ratio of shares of A and B is 3 : 1, that of B and C is 5 : 3 and that of C and D is also 5 : 3. If the difference between the shares of B and D is ₹1,280, then what is the difference (in ₹) of shares of A and C?

- Ans**  1. 6,400
 2. 4,000
 3. 4,800
 4. 5,600

Question ID : 630680557605
Option 1 ID : 6306802179482
Option 2 ID : 6306802179479
Option 3 ID : 6306802179480
Option 4 ID : 6306802179481
Status : Answered
Chosen Option : 3

Q.6 A can complete a certain work in 36 days. B is $33\frac{1}{3}\%$ less efficient than A and C is 50% less efficient than B. All the three started the work together, but A left 9 days after the start of the work and B left 3 days before the completion of the work. In how many days was the whole work completed?

- Ans**  1. 30
 2. 28
 3. 32
 4. 29

Question ID : 630680557618
Option 1 ID : 6306802179533
Option 2 ID : 6306802179531
Option 3 ID : 6306802179534
Option 4 ID : 6306802179532
Status : Answered
Chosen Option : 4

Q.7 If $x^2 + \frac{1}{x^2} = 10$, then what is the value of $x^4 + \frac{1}{x^4}$?

- Ans
- ☐ 1. 102
 - ☐ 2. 100
 - ☒ 3. 98
 - ☐ 4. 96

Question ID : 630680557729
Option 1 ID : 6306802179975
Option 2 ID : 6306802179978
Option 3 ID : 6306802179976
Option 4 ID : 6306802179977
Status : Answered
Chosen Option : 3

Q.8 In an election between two candidates A and B, 15% of the voters did not cast their votes, 20% of the votes cast were declared invalid. The winning candidate got 8262 votes, which were 54% of the total valid votes.

Statement I: The candidate who was defeated got votes from 31.28 % of the total voters in the list.

Statement II: The number of valid votes was 15500.

Which of the above statements is/are correct?

- Ans
- ☐ 1. Neither I nor II
 - ☐ 2. II only
 - ☐ 3. Both I and II
 - ☒ 4. I only

Question ID : 630680557586
Option 1 ID : 6306802179406
Option 2 ID : 6306802179404
Option 3 ID : 6306802179405
Option 4 ID : 6306802179403
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.9 In a company there are 44 employees. The average salary of 30 employees is ₹4200 per month and the average salary of 10 employees among remaining 14 employees is ₹6200 per month. If the average salary of all employees is ₹7400 per month, then what is the per month average salary of the remaining 4 employees?

- Ans
- ☐ 1. ₹35600
 - ☒ 2. ₹34400
 - ☐ 3. ₹42200
 - ☐ 4. ₹37800

Question ID : 630680557646
Option 1 ID : 6306802179643
Option 2 ID : 6306802179644
Option 3 ID : 6306802179646
Option 4 ID : 6306802179645
Status : Answered
Chosen Option : 2

Q.10 The product of the three consecutive odd numbers is 2145. What is the Square of the middle number?

- Ans**
- ☒ 1. 121
 - ☒ 2. 225
 - ☒ 3. 169
 - ☒ 4. 289

Question ID : 630680557676
Option 1 ID : 6306802179763
Option 2 ID : 6306802179764
Option 3 ID : 6306802179765
Option 4 ID : 6306802179766
Status : Answered
Chosen Option : 3

Q.11 P and R are at a distance of 296 km from each other at 7:45 a.m. After 15 minutes, P starts moving towards R at the speed of 32 km/hr. At 8:30 a.m. R starts moving towards P at the speed of 8 km/hr. At what time will they meet?

- Ans**
- ☒ 1. 3:30 pm
 - ☒ 2. 2:45 pm
 - ☒ 3. 4:50 pm
 - ☒ 4. 4:20 pm

Question ID : 630680557727
Option 1 ID : 6306802179967
Option 2 ID : 6306802179969
Option 3 ID : 6306802179970
Option 4 ID : 6306802179968
Status : Answered
Chosen Option : 2

Q.12 A sum of ₹1200 becomes ₹1560 at the rate of simple interest in 3 years. In how many years will the sum of ₹800 amounts to ₹1120 at the same rate of simple interest?

- Ans**
- ☒ 1. 5 years
 - ☒ 2. 6 years
 - ☒ 3. 4 years
 - ☒ 4. 3 years

Question ID : 630680557649
Option 1 ID : 6306802179657
Option 2 ID : 6306802179658
Option 3 ID : 6306802179656
Option 4 ID : 6306802179655
Status : Answered
Chosen Option : 3

Q.13 A question is given, followed by three statements labelled I, II and III. Identify which of the statements is/are sufficient to answer the question.

Question:

What is the time (in second) taken by A to run the race?

Statements:

- I. A beats B by 30 seconds and B beats C by 60 seconds.
- II. A beats C by 90 seconds.
- III. B's speed is the average of A's speed and C's speed.

- Ans**
- ☒ 1. I and II
 - ☒ 2. II and III
 - ☒ 3. I, II and III
 - ☒ 4. I and III

Question ID : 630680557629
Option 1 ID : 6306802179575
Option 2 ID : 6306802179577
Option 3 ID : 6306802179578
Option 4 ID : 6306802179576
Status : Not Answered
Chosen Option : --

Q.14 The simple interest on a sum for 6 years is ₹29250. The rate of interest for the first 2 years is 7 percent per annum and for the next 4 years is 16 percent per annum. What is the sum?

- Ans**
- ☒ 1. ₹37500
 - ☒ 2. ₹38300
 - ☒ 3. ₹35400
 - ☒ 4. ₹36600

Question ID : 630680557659
Option 1 ID : 6306802179696
Option 2 ID : 6306802179698
Option 3 ID : 6306802179697
Option 4 ID : 6306802179695
Status : Answered
Chosen Option : 1

Q.15 In a village, 90 percent people of the total population are literate and the remaining are illiterate. If the number of illiterate people is 1320, then what is the total population of village?

- Ans**
- ☒ 1. 13000
 - ☒ 2. 12000
 - ☒ 3. 12200
 - ☒ 4. 13200

Question ID : 630680557687
Option 1 ID : 6306802179807
Option 2 ID : 6306802179808
Option 3 ID : 6306802179809
Option 4 ID : 6306802179810
Status : Answered
Chosen Option : 4

Q.16 Which of the following statements is/are correct?

(a) $\Sigma (n^2 - n) = 330, n = 1, 2, \dots, 10$

(b) $\Sigma (n^2 + n) = 728, n = 1, 2, \dots, 12$

(c) $\Sigma (n^2 + 3n + 1) = 352, n = 1, 2, \dots, 8$

Ans ☒ 1. (a) and (b)

☐ 2. (b) and (c)

☐ 3. (a) only

☐ 4. (b) only

Question ID : 630680557584
Option 1 ID : 6306802179397
Option 2 ID : 6306802179398
Option 3 ID : 6306802179395
Option 4 ID : 6306802179396
Status : Not Answered
Chosen Option : --

Q.17 Select the option that is true regarding the following labelled Assertion (A) and Reason (R).

Assertion (A)	Reason (R)
The cost of 3 vadas and 4 samosas is ₹195. If the cost of a samosa increases by 10% and that of a vada decreases by one-fifth, the cost of 2 vadas and 3 samosas is ₹139. The original cost of 2 vadas and 1 samosa is ₹80.	Let cost of 1 vada and 1 samosa is ₹ x and ₹ y, respectively. $3x + 4y = 195$ and $2 \times (1.1)x + 3 \times \frac{1}{5}y = 139.$

Ans ☒ 1. A is true and R is false.

☐ 2. A is false and R is true.

☐ 3. Both A and R are true and R is a correct explanation of A.

☐ 4.

Both A and R are true but R is not a correct explanation of A.

Question ID : 630680560599
Option 1 ID : 6306802191390
Option 2 ID : 6306802191391
Option 3 ID : 6306802191388
Option 4 ID : 6306802191389
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.18 The average weight of some students in a section is 35.5 kg. Twelve of them whose average weight is 37 kg leave the section and another 5 students with weights 40 kg, 39.5 kg, 38.5 kg, 42 kg and 47.5 kg join the section, and thereby the average weight of the students in the section increases by 300 g. The number of students, initially, in the section, was:

- Ans** ☒ 1. 47
☐ 2. 49
☐ 3. 53
☐ 4. 45

Question ID : 630680557568

Option 1 ID : 6306802179332

Option 2 ID : 6306802179333

Option 3 ID : 6306802179334

Option 4 ID : 6306802179331

Status : **Not Attempted and Marked For Review**

Chosen Option : --

Q.19 A question is given, followed by three statements labelled I, II and III. Identify which of the statements is/are sufficient to answer the question.

Question:

What is the value of A when $D = 7$?

Statements:

- I. A varies directly with the sum of B and C, B varies directly with D and C varies directly with D^2 .
II. When $D = 3$, $A = 33$.
III. When $D = 4$, $A = 52$.

- Ans** ☒ 1. I, II and III
☐ 2. I and III
☐ 3. I and II
☐ 4. I only

Question ID : 630680557615

Option 1 ID : 6306802179522

Option 2 ID : 6306802179521

Option 3 ID : 6306802179520

Option 4 ID : 6306802179519

Status : **Not Answered**

Chosen Option : --

Q.20 Selling price of a bat is ₹1144 and profit percentage is 30 percent. If selling price is ₹704, then what will be the loss percentage?

- Ans** ☐ 1. 18 percent
☒ 2. 20 percent
☐ 3. 15 percent
☐ 4. 10 percent

Question ID : 630680557699

Option 1 ID : 6306802179856

Option 2 ID : 6306802179857

Option 3 ID : 6306802179855

Option 4 ID : 6306802179858

Status : **Answered**

Chosen Option : 2

Section : Numerical Aptitude

If a 9-digit number $9834x97y4$ is divisible by 88, then what is the maximum possible value of $(3x + 2y)$?



34



27



31



37

Q.2 Two numbers are in the ratio of 8 : 3. If their sum is 11, then what is the sum of the squares of the two numbers?

- Ans**  1. 93
 2. 63
 3. 73
 4. 83

Question ID : 630680557716
Option 1 ID : 6306802179925
Option 2 ID : 6306802179926
Option 3 ID : 6306802179923
Option 4 ID : 6306802179924
Status : Answered
Chosen Option : 3

Q.3 Neeraj sells sarees for ₹3,944 each, after giving two successive discounts of 15% and 20% on its marked price. If he sells a saree giving no discount on its marked price, then he earns a profit of 45%. If he sells a saree for ₹4,496, then his profit percentage will be _____.

- Ans**  1. 12%
 2. 12.4 %
 3. 15.6%
 4. 15%

Question ID : 630680557596
Option 1 ID : 6306802179443
Option 2 ID : 6306802179444
Option 3 ID : 6306802179446
Option 4 ID : 6306802179445
Status : Answered
Chosen Option : 2

Q.4 $\frac{1}{6}$ of a certain sum is lent at 36 percent rate of interest, $\frac{1}{5}$ of the remaining sum is lent at 42 percent rate of interest. The remaining sum is lent at 18 percent rate of interest. If the simple interest received on the total sum for 3 years is ₹1725, then what is the sum?

- Ans**  1. ₹2300
 2. ₹2400
 3. ₹2100
 4. ₹2200

Question ID : 630680557666
Option 1 ID : 6306802179725
Option 2 ID : 6306802179724
Option 3 ID : 6306802179723
Option 4 ID : 6306802179726
Status : Not Answered
Chosen Option : --

Q.5 15% of A = 20% of B = 25% of C and $A + B + C = 5640$. A is decreased by $58\frac{1}{3}\%$, B is increased by 20% and C is decreased by 30%.

Statement I: The new value of C is 8% more than the new value of A.

Statement II: The new value of B is 10% less than the initial value of A.

Which of the above statements is/are correct?

- Ans**
- ☒ 1. II only
 - ☐ 2. Neither I nor II
 - ☐ 3. Both I and II
 - ☐ 4. I only

Question ID : 630680557591
Option 1 ID : 6306802179424
Option 2 ID : 6306802179426
Option 3 ID : 6306802179425
Option 4 ID : 6306802179423
Status : Not Answered
Chosen Option : --

Q.6 Simple interest on a sum for eight months at the rate of 8 percent per annum is ₹480. What is the value of sum?

- Ans**
- ☐ 1. ₹10500
 - ☐ 2. ₹7500
 - ☒ 3. ₹9000
 - ☐ 4. ₹12000

Question ID : 630680557657
Option 1 ID : 6306802179689
Option 2 ID : 6306802179687
Option 3 ID : 6306802179690
Option 4 ID : 6306802179688
Status : Answered
Chosen Option : 3

Q.7 Which of the following statements is/are correct?

(a) The sum $1^3 + 2^3 + 3^3 + \dots$ to ten terms, lies between 3020 and 3030.

(b) If x is subtracted from the sum $1^3 + 3^3 + 5^3 + \dots$ to 10 terms, then it becomes a square. The least value of x is 17.

(c) $11^3 + 12^3 + 13^3 + \dots + 20^3 = 41075$.

- Ans**
- ☐ 1. (a) and (b)
 - ☐ 2. (a) only
 - ☒ 3. (a) and (c)
 - ☐ 4. (b) only

Question ID : 630680557585
Option 1 ID : 6306802179401
Option 2 ID : 6306802179399
Option 3 ID : 6306802179402
Option 4 ID : 6306802179400
Status : Not Answered
Chosen Option : --

Q.8 Pawan purchased two tables, first for ₹10000 and the second for ₹12000. He sold both the tables, first one at the profit of 10 percent and the second at a loss of 20 percent. What is the overall profit or loss?

- Ans** ☒ 1. Profit = ₹1200
☒ 2. Loss = ₹1400
☒ 3. Profit = ₹1400
☒ 4. Loss = ₹1200

Question ID : 630680557702
Option 1 ID : 6306802179869
Option 2 ID : 6306802179868
Option 3 ID : 6306802179867
Option 4 ID : 6306802179870
Status : Answered
Chosen Option : 2

Q.9 Select the option that is true regarding the following labelled Assertion (A) and Reason (R).

Assertion (A)	Reason (R)
The cost of 5 pens, 6 erasers and 7 notebooks is ₹340 and the cost of 6 pens, 4 erasers and 2 notebooks is ₹200. The cost of one pen, one eraser and 1 notebook is ₹55.	Let x, y and z denote the cost of 1 pen, 1 eraser and 1 notebook, respectively. $5x + 6y + 7z = 340$ and $6x + 4y + 2z = 200$.

- Ans** ☒ 1. Both A and R are true and R is a correct explanation of A.
☒ 2. A is false and R is true.
☒ 3. A is true and R is false.
☒ 4. Both A and R are true but R is not a correct explanation of A.

Question ID : 630680560597
Option 1 ID : 6306802191380
Option 2 ID : 6306802191383
Option 3 ID : 6306802191382
Option 4 ID : 6306802191381
Status : Answered
Chosen Option : 1

Q.10 Two sums of money are divided between A, B, C and D. The first sum is divided between them in the ratio 4 : 6 : 3 : 2 and the second sum is divided in the ratio 3 : 4 : 7 : 6. The second sum is two times the first sum. Who will get the second largest overall share?

- Ans** ☒ 1. B
☒ 2. D
☒ 3. A
☒ 4. C

Question ID : 630680557607
Option 1 ID : 6306802179488
Option 2 ID : 6306802179490
Option 3 ID : 6306802179487
Option 4 ID : 6306802179489
Status : Answered
Chosen Option : 4

Q.11 What is the value of $\frac{58.32}{0.27 \times 0.09}$?

- Ans
- ☐ 1. 24
 - ☒ 2. 2400
 - ☐ 3. 240
 - ☐ 4. 24000

Question ID : 630680557672
Option 1 ID : 6306802179750
Option 2 ID : 6306802179748
Option 3 ID : 6306802179749
Option 4 ID : 6306802179747
Status : Answered
Chosen Option : 2

Q.12 A person leaves city J at 7 am and reaches city K at 5 pm. Another person leaves from city K at 4 pm and reaches city J at 10 pm. At what time (approximately) they both will meet?

- Ans
- ☐ 1. 4:13 pm
 - ☐ 2. 4:37 pm
 - ☐ 3. 4:52 pm
 - ☒ 4. 4:23 pm

Question ID : 630680557723
Option 1 ID : 6306802179952
Option 2 ID : 6306802179951
Option 3 ID : 6306802179953
Option 4 ID : 6306802179954
Status : Not Answered
Chosen Option : --

Q.13 The average of 11 consecutive odd numbers is 37. What is the difference between the largest number and the smallest number?

- Ans
- ☐ 1. 21
 - ☐ 2. 23
 - ☒ 3. 20
 - ☐ 4. 25

Question ID : 630680557639
Option 1 ID : 6306802179618
Option 2 ID : 6306802179617
Option 3 ID : 6306802179616
Option 4 ID : 6306802179615
Status : Answered
Chosen Option : 3

Q.14 When 85 percent of a number is added to 18, then the result is that number only. What is the value of the number?

- Ans**
- ☒ 1. 105
 - ☒ 2. 135
 - ☒ 3. 120
 - ☒ 4. 150

Question ID : 630680557680
Option 1 ID : 6306802179782
Option 2 ID : 6306802179780
Option 3 ID : 6306802179779
Option 4 ID : 6306802179781
Status : Answered
Chosen Option : 3

Q.15 A question is given, followed by three statements labelled I, II and III. Identify which of the statements is/are sufficient to answer the question.

Question:

What is the daily wages (in ₹) of one worker of type A?

Statements:

- I. In a factory, the ratio of the number of workers of type A, B and C is 9 : 4 : 1 and the ratio of daily wages of one worker of type A, B and C is 8 : 5 : 3. Total daily wages of all workers of type A, B and C is ₹57,000.
- II. The number of workers of type B is 20.
- III. The number of workers of type C is 5.

- Ans**
- ☒ 1. I and II or I and III
 - ☒ 2. I only
 - ☒ 3. I and II only
 - ☒ 4. I, II and III

Question ID : 630680557612
Option 1 ID : 6306802179509
Option 2 ID : 6306802179507
Option 3 ID : 6306802179508
Option 4 ID : 6306802179510
Status : Answered
Chosen Option : 2

Q.16 A question is given, followed by three statements labelled I, II and III. Identify which of the statements is/are sufficient to answer the question.

Question:

How much time (in hours) will a boat take to go 25 km downstream?

Statements:

- I. The time taken by the boat to go a certain distance downstream is $\frac{7}{10}$ of the time taken by it to go the same distance in still water.
- II. The boat takes 6 hours to go 49 km downstream and 14 km upstream.
- III. The ratio of the speed of the boat in still water and the speed of the current is 7 : 3.

- Ans**
- ☒ 1. I and III only
 - ☒ 2. I and II only
 - ☒ 3. II and III only
 - ☒ 4. I and II or II and III

Question ID : 630680557626
Option 1 ID : 6306802179564
Option 2 ID : 6306802179563
Option 3 ID : 6306802179565
Option 4 ID : 6306802179566
Status : Answered
Chosen Option : 1

Q.17 The average weight of some children in a group is 45 kg. When 10 children of average weight 40 kg leave the group or 15 children of average weight 50 kg join the group, the average weight of children in both the cases is the same. The number of children, initially, in the group lies between:

- Ans** ☒ 1. 55 and 65
 ☐ 2. 45 and 55
 ☐ 3. 35 and 45
 ☐ 4. 65 and 75

Question ID : 630680557566
Option 1 ID : 6306802179325
Option 2 ID : 6306802179324
Option 3 ID : 6306802179323
Option 4 ID : 6306802179326
Status : Not Answered
Chosen Option : --

Q.18 If $x^2 + \frac{1}{x^2} = 14$, then what is the value of $x^3 + \frac{1}{x^3}$? ($x > 0$)

- Ans** ☐ 1. 42
 ☒ 2. 52
 ☐ 3. 48
 ☐ 4. 50

Question ID : 630680557732
Option 1 ID : 6306802179990
Option 2 ID : 6306802179987
Option 3 ID : 6306802179989
Option 4 ID : 6306802179988
Status : Answered
Chosen Option : 2

Q.19 Income of Pawan is 5 percent more than the income of Pankaj and income of Pankaj is 15 percent more than the income of Manjeet. The income of Manjeet is (approximately) how much percentage less than the income of Pawan?

- Ans** ☐ 1. 7 percent
 ☒ 2. 17 percent
 ☐ 3. 3 percent
 ☐ 4. 10 percent

Question ID : 630680557694
Option 1 ID : 6306802179837
Option 2 ID : 6306802179835
Option 3 ID : 6306802179838
Option 4 ID : 6306802179836
Status : Answered
Chosen Option : 2

Q.20 A can complete a certain work in 30 days. B is 20% more efficient than A. C can complete $\frac{2}{5}$ part of the same work in 8 days. A and B together complete $\frac{11}{15}$ part of the work. The remaining work is completed by A and C together. In how many days was the entire work completed?

Ans  1. 13

 2. $13\frac{1}{5}$

 3. $14\frac{2}{5}$

 4. 14

Question ID : **630680557617**

Option 1 ID : **6306802179529**

Option 2 ID : **6306802179530**

Option 3 ID : **6306802179528**

Option 4 ID : **6306802179527**

Status : **Answered**

Chosen Option : **2**

Q.1 Select the option that is true regarding the following labelled Assertion (A) and Reason (R).

Assertion (A)	Reason (R)
The system of equations: $9x + 6y = 11$ and $7x + ky = 9$ has no solution, if $k = \frac{14}{3}$.	System of equations $ax + by = c$ $dx + ey = f$ has no solution, if $\frac{a}{d} = \frac{b}{e} \neq \frac{c}{f}$

- Ans
- ☒ 1. Both A and R are true and R is a correct explanation of A.
- ☐ 2.
- Both A and R are true but R is not a correct explanation of A.
- ☐ 3. A is false and R is true.
- ☐ 4. A is true and R is false.

Question ID : 630680560600
Option 1 ID : 6306802191392
Option 2 ID : 6306802191393
Option 3 ID : 6306802191395
Option 4 ID : 6306802191394
Status : Not Answered
Chosen Option : --

Q.2 If A1 is 19 times more than A2, then A2 is what percentage less than A1?

- Ans
- ☐ 1. 100 percent
- ☒ 2. 95 percent
- ☐ 3. 105 percent
- ☐ 4. 85 percent

Question ID : 630680557679
Option 1 ID : 6306802179778
Option 2 ID : 6306802179776
Option 3 ID : 6306802179777
Option 4 ID : 6306802179775
Status : Answered
Chosen Option : 2

Q.3 The average age of a group of 13 men is 55 years. 2 men leave the group and the average age of group increases by 1 year. What is the average age of 2 men who left the group?

- Ans
- ☐ 1. 50.5 years
- ☐ 2. 48.5 years
- ☐ 3. 50 years
- ☒ 4. 49.5 years

Question ID : 630680557647
Option 1 ID : 6306802179650
Option 2 ID : 6306802179648
Option 3 ID : 6306802179649
Option 4 ID : 6306802179647
Status : Answered
Chosen Option : 4

Q.4 A question is given, followed by three statements labelled I, II and III. Identify which of the statements is/are sufficient to answer the question.

Question:

What is the total expense when the hostel has 189 occupants?

Statements: Total expenses of the hostel consist of two parts: one varies directly with the number of occupants and the other is fixed.

- I. When it had 150 occupants, its total expense was ₹79,500.
- II. When it had 240 occupants, its total expense was ₹1,15,500.
- III. When it had 200 occupants, its total expense was ₹99,000.

- Ans**
- ☐ 1. I and II only
 - ☐ 2. I only
 - ☐ 3. I, II and III
 - ☒ 4. I and II or I and III

Question ID : 630680557614
Option 1 ID : 6306802179516
Option 2 ID : 6306802179515
Option 3 ID : 6306802179518
Option 4 ID : 6306802179517
Status : Not Answered
Chosen Option : --

Q.5 If $x + y + z = 10$ and $x^2 + y^2 + z^2 = 80$, then what is the value of $4xy + 4yz + 4zx$?

- Ans**
- ☐ 1. 30
 - ☐ 2. 20
 - ☒ 3. 40
 - ☐ 4. 10

Question ID : 630680557730
Option 1 ID : 6306802179981
Option 2 ID : 6306802179980
Option 3 ID : 6306802179982
Option 4 ID : 6306802179979
Status : Answered
Chosen Option : 3

Q.6 In a class, the ratio of the number of boys to that of girls is 3 : 5. The number of students who passed to that of who failed is 7 : 3. Among boys, the number of those who passed to those who failed is in the ratio 2 : 1. Among girls, what is the ratio of the number of girls who passed to those who failed?

- Ans**
- ☐ 1. 15 : 8
 - ☐ 2. 9 : 4
 - ☒ 3. 18 : 7
 - ☐ 4. 12 : 5

Question ID : 630680557608
Option 1 ID : 6306802179492
Option 2 ID : 6306802179494
Option 3 ID : 6306802179493
Option 4 ID : 6306802179491
Status : Not Answered
Chosen Option : --

- Q.7** Which of the following statements is/are correct?
- (a) A number is divisible by 125, if the last three digits of the number form a number that is divisible by 5^3 .
- (b) If a number is divisible by two numbers, then it is divisible by the product of the two numbers.
- (c) A number is divisible by 36, if the number is divisible by 4, 6 and 12.

Ans  1. (a) and (b)

 2. (a) only

 3. (b) and (c)

 4. (b) only

Question ID : **630680557581**
Option 1 ID : **6306802179384**
Option 2 ID : **6306802179383**
Option 3 ID : **6306802179386**
Option 4 ID : **6306802179385**
Status : **Answered**
Chosen Option : **3**

- Q.8** The cost of a motorbike is 75% less than the cost of a car. The cost of a car decreases by 25% and that of a motorbike increases by 40%.
- Statement I: The new cost of a motorbike is $53\frac{1}{3}\%$ less than the new cost of a car.
- Statement II: The total new cost of one car and two motorbikes is $3\frac{1}{3}\%$ more than their total initial cost.
- Which of the above statements is/are correct?

Ans  1. Neither I nor II

 2. II only

 3. I only

 4. Both I and II

Question ID : **630680557592**
Option 1 ID : **6306802179430**
Option 2 ID : **6306802179428**
Option 3 ID : **6306802179427**
Option 4 ID : **6306802179429**
Status : **Answered**
Chosen Option : **3**

- Q.9** Pipes A and B can fill a tank in 6 hours and 15 hours, respectively. Pipe C is a drain pipe. When all the three pipes are opened together for 6 hours, then 65% of the tank is filled. Initially, pipes A and C are opened together for 8 hours and then C is closed and B is opened. Pipes A and B together will fill the remaining part of tank in ____ hours.

Ans  1. $3\frac{1}{3}$

 2. $2\frac{6}{7}$

 3. $3\frac{2}{3}$

 4. $2\frac{3}{7}$

Question ID : **630680557616**
Option 1 ID : **6306802179525**
Option 2 ID : **6306802179524**
Option 3 ID : **6306802179526**
Option 4 ID : **6306802179523**
Status : **Not Answered**
Chosen Option : **--**

Q.10 When 860, 1712 and 3203 are divided by a two-digit number x , then the remainder in each case is y . If $(2x + y)$ is written as $p \times q \times r^2$, where p, q and r are prime numbers, then what is the value of $(p + q + r)$?

- Ans** ☒ 1. 10
 ☐ 2. 12
 ☐ 3. 16
 ☐ 4. 15

Question ID : 630680557575
Option 1 ID : 6306802179359
Option 2 ID : 6306802179360
Option 3 ID : 6306802179362
Option 4 ID : 6306802179361
Status : Not Answered
Chosen Option : --

Q.11 What is the value of $\frac{72 - (25 \div 5) \times 2}{6 \times 5 + 1}$?

- Ans** ☐ 1. 1
 ☒ 2. 2
 ☐ 3. 3
 ☐ 4. 4

Question ID : 630680557668
Option 1 ID : 6306802179731
Option 2 ID : 6306802179732
Option 3 ID : 6306802179733
Option 4 ID : 6306802179734
Status : Answered
Chosen Option : 2

Q.12 The ratio of alcohol and water in solutions A and B is 3 : 5 and 5 : 7, respectively. Two litres of A is mixed with 5 litres of B and 3 litres of alcohol is also added to it to get a new solution C. In 1.5 litres of solution C, how much alcohol (in ml) should be mixed so that the ratio of alcohol and water in the final solution becomes 2 : 1?

- Ans** ☐ 1. 385
 ☐ 2. 405
 ☒ 3. 375
 ☐ 4. 395

Question ID : 630680557572
Option 1 ID : 6306802179348
Option 2 ID : 6306802179350
Option 3 ID : 6306802179347
Option 4 ID : 6306802179349
Status : Not Answered
Chosen Option : --

Q.13 Bala has thrice as much amount as that of Lalit and Lalit has 10 percent more amount than Vimal. If the average amount of all three of them is ₹1350, then how much amount is with Bala?

- Ans**
- ☒ 1. ₹2455
 - ☒ 2. ₹2465
 - ☒ 3. ₹2475
 - ☒ 4. ₹2355

Question ID : 630680557688
Option 1 ID : 6306802179813
Option 2 ID : 6306802179814
Option 3 ID : 6306802179811
Option 4 ID : 6306802179812
Status : Answered
Chosen Option : 3

Q.14 Anil sells two pens at the rate of ₹1500 per pen. He earns a profit of 25 percent on one pen and loses 25 percent on the other pen. What will be the total profit or loss in whole transaction?

- Ans**
- ☒ 1. ₹250 profit
 - ☒ 2. ₹280 profit
 - ☒ 3. ₹200 loss
 - ☒ 4. ₹150 loss

Question ID : 630680557701
Option 1 ID : 6306802179865
Option 2 ID : 6306802179863
Option 3 ID : 6306802179866
Option 4 ID : 6306802179864
Status : Answered
Chosen Option : 4

Q.15 A person borrows some money for 2 years at a certain rate of simple interest. If the ratio of principal and total interest is 5 : 4, then what is the annual rate of interest?

- Ans**
- ☒ 1. 50 percent
 - ☒ 2. 40 percent
 - ☒ 3. 48 percent
 - ☒ 4. 35 percent

Question ID : 630680557654
Option 1 ID : 6306802179678
Option 2 ID : 6306802179676
Option 3 ID : 6306802179677
Option 4 ID : 6306802179675
Status : Answered
Chosen Option : 2

Q.16 The sum of two numbers is 176 and their difference is 16. What is the ratio of the two numbers?

- Ans**  1. 6 : 5
  2. 3 : 2
  3. 6 : 1
  4. 5 : 2

Question ID : 630680557711
Option 1 ID : 6306802179906
Option 2 ID : 6306802179903
Option 3 ID : 6306802179904
Option 4 ID : 6306802179905
Status : Answered
Chosen Option : 1

Q.17 A sum of ₹2600 is lent out at simple interest in two parts. One part at at the annual rate of 18 percent and another part at the annual rate of 25 percent. If the total annual interest is ₹520, then what is the sum lent out at the rate of 25 percent per annum?

- Ans**  1. ₹657.66
  2. ₹742.85
  3. ₹798.89
  4. ₹642.68

Question ID : 630680557658
Option 1 ID : 6306802179694
Option 2 ID : 6306802179692
Option 3 ID : 6306802179693
Option 4 ID : 6306802179691
Status : Not Answered
Chosen Option : --

Q.18 Two trains C and D starts moving from stations R and S respectively towards each other. Trains take 4 hours 16 minutes and 3 hours 45 minutes to reach S and R respectively after they meet each other. If the speed of train C is 60 km/hr, then what is the speed of the train D?

- Ans**  1. 64 km/hr
  2. 72 km/hr
  3. 48 km/hr
  4. 56 km/hr

Question ID : 630680557725
Option 1 ID : 6306802179959
Option 2 ID : 6306802179962
Option 3 ID : 6306802179960
Option 4 ID : 6306802179961
Status : Not Answered
Chosen Option : --

Q.19 A and B run a $5\frac{1}{2}$ km race on a 500 m long circular track starting from the same point, simultaneously, in the same direction. The speed of A is 50% faster than B.

Which of the following statements is/are correct?

Statement I: A and B meet for the first time after starting the race when A covers 1200 m.

Statement II: A meets B three times during the race.

Ans  1. Neither I nor II

 2. I and II

 3. I only

 4. II only

Question ID : 630680557622

Option 1 ID : 6306802179550

Option 2 ID : 6306802179549

Option 3 ID : 6306802179547

Option 4 ID : 6306802179548

Status : Not Answered

Chosen Option : --

Q.20 Naman sells an item at ₹ x , after giving two successive discounts each of 10% on its marked price. If he does not give any discount on the marked price, he earns a profit of 25%. The cost price of the item is ₹800. What is the value of x ?

Ans  1. 840

 2. 810

 3. 820

 4. 830

Question ID : 630680557600

Option 1 ID : 6306802179459

Option 2 ID : 6306802179462

Option 3 ID : 6306802179461

Option 4 ID : 6306802179460

Status : Answered

Chosen Option : 3

Q.19 Which of the following bodies had introduced the first official residential housing price index called RESIDEX?

- Ans
- ☒ 1. NITI Aayog
 - ☒ 2. SEBI
 - ☒ 3. NHB
 - ☒ 4. RBI

Question ID : 59445929027
Status : Answered
Chosen Option : 3

Q.20 Karakoram, a mountain range, is of great geopolitical significance as:

- 1. It connects India and China
- 2. It serves as a watershed for the basins of the Indus and Yarkand rivers
- 3. The borders of India, China, Pakistan along Afghanistan and Tajikistan all converge within the Karakoram system

Select the correct answer using the codes given below.

- Ans
- ☒ 1. Only 1 and 2
 - ☒ 2. Only 3
 - ☒ 3. Only 2 and 3
 - ☒ 4. Only 2

Question ID : 59445929035
Status : Answered
Chosen Option : 1

Section : Numerical aptitude

Q.1 Find the volume of a sphere with diameter as 21 cm. (The value of π is 22/7)

- Ans
- ☒ 1. 4851 cu cm
 - ☒ 2. 4132 cu cm
 - ☒ 3. 3361 cu cm
 - ☒ 4. 4441 cu cm

Question ID : 59445929048
Status : Answered
Chosen Option : 1

Q.2 Sanjay and Amit can do a piece of work in 8 days. Amit alone can do it in 12 days. In how many days will Sanjay do it alone?

- Ans
- ☒ 1. 20 days
 - ☒ 2. 24 days
 - ☒ 3. 16 days
 - ☒ 4. 12 days

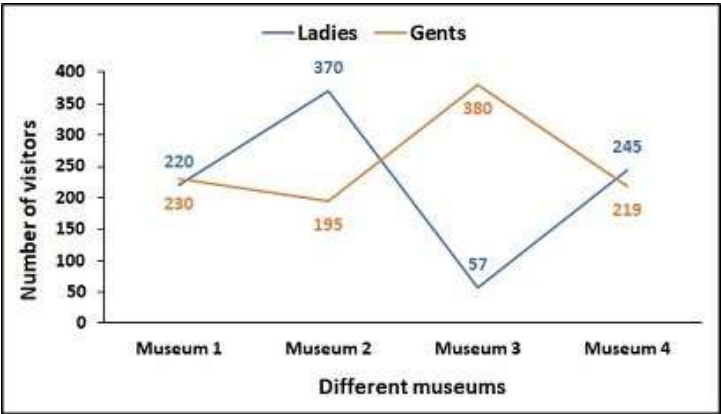
Question ID : 59445929047
Status : Answered
Chosen Option : 2

Q.3 Find the total surface area of cube whose volume is 64 m^3 .

- Ans
- ☒ 1. 64 m^2
 - ☒ 2. 96 m^2
 - ☒ 3. 36 m^2
 - ☒ 4. 25 m^2

Question ID : 59445929057
Status : Answered
Chosen Option : 2

Q.4 The graph shows number of visitors (ladies and gents) in four different museums namely 1, 2, 3 and 4. Which museum had the maximum number of visitors?



- Ans
- ☒ 1. 1
 - ☒ 2. 3
 - ☒ 3. 4
 - ☒ 4. 2

Question ID : 59445929055
Status : Answered
Chosen Option : 4

Q.5 The ratio of two numbers a and b is $7 : 15$, respectively. Their least common multiple is 840. What is $(b + a) : (b - a)$?

- Ans
- ☒ 1. $15 : 4$
 - ☒ 2. $11 : 4$
 - ☒ 3. $15 : 11$
 - ☒ 4. $7 : 11$

Question ID : 59445929043
Status : Answered
Chosen Option : 2

Q.6 Find the rate of interest if amount after 2 years on simple interest on a capital of Rs 1000 is Rs 1200.

- Ans  1. 5 percent
 2. 20 percent
 3. 10 percent
 4. 15 percent

Question ID : 59445929045
Status : Answered
Chosen Option : 3

Q.7 LCM and HCF of two numbers are respectively 3 and 18. If one of them is 9, find the other number.

- Ans  1. 6
 2. 9
 3. 8
 4. 3

Question ID : 59445929042
Status : Answered
Chosen Option : 1

Q.8 The average of 5 consecutive numbers is 21. The highest number will be?

- Ans  1. 21
 2. 23
 3. 22
 4. 19

Question ID : 59445929060
Status : Answered
Chosen Option : 2

Q.9 Simplify the following.

$$\left[\left(1-\frac{1}{2}\right)\left(1-\frac{1}{3}\right)\left(1-\frac{1}{4}\right)\dots\left(1-\frac{1}{100}\right)\right]^{-0.5}$$

- Ans  1. $\frac{1}{100}$
 2. $\frac{1}{10}$
 3. 100
 4. 10

Question ID : 59445929041
Status : Answered
Chosen Option : 4

Q.10 The table shows expenditure and income of a firm in various months. In which month was ratio of savings to income maximum.

Month	Salary	Expenditure
Jan	40,000	28,000
Feb	35,000	30000
March	37000	30000
April	42000	32000
May	45000	31000

- Ans  1. April
 2. Feb
 3. Jan
 4. May

Question ID : 59445929049
Status : Answered
Chosen Option : 4

Q.11 A passenger train consists of 18 bogies, each bogie being 15 m long. The train crosses an electric post in 15 sec. Due to some problem, three bogies were detached. The train now crosses the electric post in _____ sec.

- Ans  1. 10.5
 2. 14
 3. 12.5
 4. 11

Question ID : 59445929051
Status : Answered
Chosen Option : 3

Q.12 The marks of 5 students are 25, 35, 45, 50, 15. Calculate the average marks.

- Ans  1. 30
 2. 34
 3. 35
 4. 32

Question ID : 59445929054
Status : Answered
Chosen Option : 2

Q.13 Arun & Bijay can make paintings in 3 days, Bijay & Chandan can make those paintings in 5 days. If Arun, Bijay & Chandan together can finish the work in 2 days, then Arun & Chandan together will do it in _____ days.

- Ans  1. 4/3 days
 2. 8/7 days
 3. 15/7 days
 4. 5 days

Question ID : 59445929056
Status : Answered
Chosen Option : 3

Q.14 The ratio of the length of the parallel sides of a trapezium is 3 : 2. The shortest distance between them is 15 cm. If the area of the trapezium is 1350 sq. cm, then find the difference of the lengths of the parallel sides.

- Ans  1. 95 cm
 2. 21 cm
 3. 36 cm
 4. 65 cm

Question ID : 59445929059
Status : Answered
Chosen Option : 3

Q.15 In 87659_21 what is the least number that can be filled in blank to make the number divisible by 11.

- Ans  1. 7
 2. 1
 3. 3
 4. 2

Question ID : 59445929053
Status : Answered
Chosen Option : 2

Q.16 A boat goes 20 km downstream in 30 mins. The speed of the stream is 10 km/h. Find the speed of the boat.

- Ans  1. 45 km/h
 2. 20 km/h
 3. 60 km/h
 4. 30 km/h

Question ID : 59445929052
Status : Answered
Chosen Option : 4

Q.17 Find a single discount equivalent to two successive discounts of 15 percent and 5 percent.

- Ans  1. 19.25
 2. 20.20
 3. 10.5
 4. 18.75

Question ID : **59445929044**
Status : **Answered**
Chosen Option : **1**

Q.18 25 percent of a number when subtracted from 100, gives the number itself. Find the number?

- Ans  1. 80
 2. 75
 3. 32
 4. 100

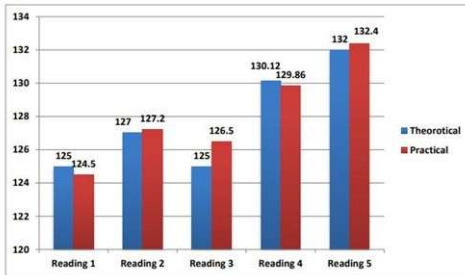
Question ID : **59445929050**
Status : **Answered**
Chosen Option : **1**

Q.19 The ratio of two numbers is 3 : 5 and their LCM is 42 greater than their HCF. What is the value of the larger number?

- Ans  1. 18
 2. 12
 3. 15
 4. 9

Question ID : **59445929058**
Status : **Answered**
Chosen Option : **3**

The given bar graph represents both, theoretical and practical readings obtained in 5 rounds of readings while conducting a scientific experiment.



What is the ratio of the difference obtained in readings 2 and 5 when calculated theoretically to the difference obtained in readings 1 and 3 when readings were taken practically?



1 : 1



3 : 2



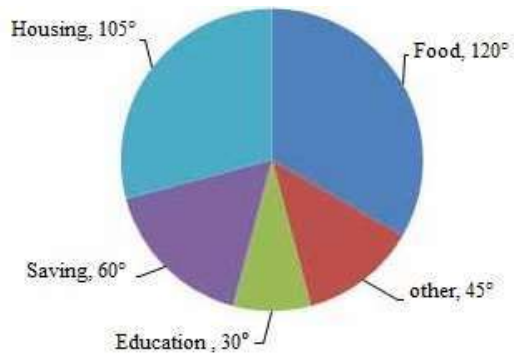
2 : 1



5 : 2

Q.1 The pie chart given here shows expenditures incurred by a family on various items and their savings, which amount to Rs. 8,000 in a month.

Study the chart and answer the question based on the pie chart.



How much more amount is spent on food than on housing?

- Ans
- ☒ 1. Rs. 1,000
 - ☒ 2. Rs. 2,500
 - ☒ 3. Rs. 2,000
 - ☒ 4. Rs. 3,000

Question ID : 6009293705

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.2 Shagun and Sheetal have 40 kg and 50 kg apples respectively. Richa takes 30 percent apples from Shagun and 46 percent apples from Sheetal. Approximately what percent of total apples are Shagun and Sheetal left with?

- Ans
- ☒ 1. 53 percent
 - ☒ 2. 61 percent
 - ☒ 3. 67 percent
 - ☒ 4. 49 percent

Question ID : 6009293704

Status : Answered

Chosen Option : 2

Q.3 Speed of a boat in still water is 10 km/hr. If speed of stream is 2 km/hr, then how much distance can the boat travel downstream in 2.5 hours?

- Ans
- ☒ 1. 30 km
 - ☒ 2. 24 km
 - ☒ 3. 32 km
 - ☒ 4. 28 km

Question ID : 6009293707

Status : Answered

Chosen Option : 1

Q.4 A certain sum of money amounts to Rs. 1331 in 3 years at 10 per cent compounded annually. Find the sum invested.

- Ans
- ☒ 1. Rs. 1050
 - ☒ 2. Rs. 1000
 - ☒ 3. Rs. 1132
 - ☒ 4. Rs. 1100

Question ID : 6009293697
Status : Answered
Chosen Option : 2

Q.5 Circumference of a circle is equal to the perimeter of a square. What is the ratio of area of circle to the area of square? (The value of π is $\frac{22}{7}$)

- Ans
- ☒ 1. 14 : 11
 - ☒ 2. 18 : 11
 - ☒ 3. 27 : 22
 - ☒ 4. 31 : 22

Question ID : 6009293710
Status : Answered
Chosen Option : 1

Q.6 Salary of Ram is 20 per cent more than Shyam's. By what percent is Shyam's salary less than Ram.

- Ans
- ☒ 1. 20.10
 - ☒ 2. 16.66
 - ☒ 3. 19.25
 - ☒ 4. 18.75

Question ID : 6009293712
Status : Answered
Chosen Option : 2

Q.7 Which of the following is correct?

- Ans
- ☒ 1. $\sqrt[6]{8} > \sqrt[4]{3} > \sqrt[3]{2} > \sqrt[12]{12}$
 - ☒ 2. $\sqrt[4]{3} > \sqrt[6]{8} > \sqrt[12]{12} > \sqrt[3]{2}$
 - ☒ 3. $\sqrt[4]{3} > \sqrt[6]{8} > \sqrt[3]{2} > \sqrt[12]{12}$
 - ☒ 4. $\sqrt[3]{2} > \sqrt[4]{3} > \sqrt[6]{8} > \sqrt[12]{12}$

Question ID : 6009293706
Status : Answered
Chosen Option : 1

Q.8 A, B and C start a partnership. They invested Rs. 45000, Rs. 36000 and Rs. 54000 respectively. They stayed in partnership for 4 years, 3 years and 2 years. If B's share in profit is Rs. 1800, then what is the total profit?

- Ans
- ☐ 1. Rs. 6000
 - ☒ 2. Rs. 6600
 - ☐ 3. Rs. 7200
 - ☐ 4. Rs. 7000

Question ID : 6009293709
Status : Answered
Chosen Option : 2

Q.9 Simplify the following.

$$7\frac{1}{2} \div \left\{ 4\frac{1}{4} - \frac{1}{2} \times \left(2\frac{1}{2} - 1\frac{1}{4} - \frac{3}{4} \right) \right\}$$

- Ans
- ☐ 1. 4.5
 - ☐ 2. 7.25
 - ☒ 3. 1.875
 - ☐ 4. 5.75

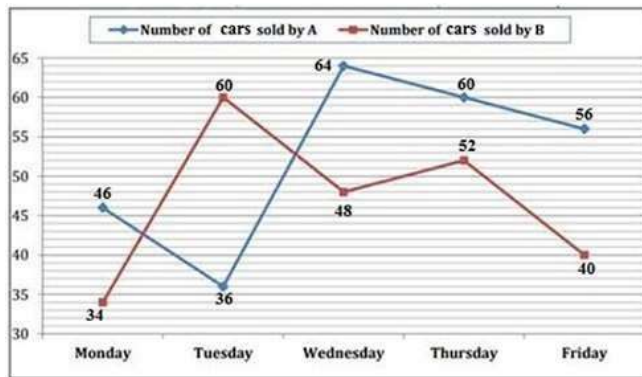
Question ID : 6009293695
Status : Answered
Chosen Option : 3

Q.10 Present ratio of the ages of Babita and Sunita is 7 : 9. 5 years ago, this ratio was 1:2. Find the present age of Babita.

- Ans
- ☐ 1. 9 years
 - ☐ 2. 14 years
 - ☒ 3. 7 years
 - ☐ 4. 21 years

Question ID : 6009293696
Status : Answered
Chosen Option : 3

Q.11 A line graph is given below which shows the number of cars sold by seller A and seller B on five days.



Find the number of cars sold on Sunday by A and B together, if number of cars sold on Sunday is $16\frac{2}{3}$ percent more than the cars sold on Friday by A and B together?

- Ans
- ☒ 1. 116
 - ☒ 2. 112
 - ☒ 3. 114
 - ☒ 4. 120

Question ID : 6009293702
Status : Answered
Chosen Option : 2

Q.12 Find the curved surface area of cone whose height is 3 m and radius is 4 m. (approximate value) (The value of π is $22/7$)

- Ans
- ☒ 1. 63 m^2
 - ☒ 2. 33 m^2
 - ☒ 3. 45 m^2
 - ☒ 4. 79 m^2

Question ID : 6009293699
Status : Answered
Chosen Option : 1

Q.13 The given table shows the number of employees appointed by different organizations in the given years.

Year	Organizations					
	P	Q	R	S	T	U
2007	92	102	84	100	95	98
2008	104	107	94	99	96	105
2009	96	119	93	102	98	103
2010	101	100	86	88	97	107
2011	85	117	84	103	102	99
2012	88	97	89	100	103	102

In the year 2008, the number of employees appointed by the organization R is how much percentage more from the previous year ? (Around the nearest integer)

- Ans  1. 12
-  2. 14
-  3. 16
-  4. 10

Question ID : 6009293703
Status : Answered
Chosen Option : 1

Q.14 What should come in place of question mark (?) in the following question ?

$$27\frac{1}{2} + 15\frac{3}{4} - 12\frac{2}{5} + 18\frac{4}{5} = ?$$

- Ans  1. $49\frac{13}{20}$
-  2. $48\frac{13}{20}$
-  3. $49\frac{33}{20}$
-  4. 49

Question ID : 6009293713
Status : Answered
Chosen Option : 1

Q.15 Which of the following is smallest?

- Ans
- ☒ 1. $\sqrt{9} - \sqrt{7}$
 - ☒ 2. $\sqrt{6} - \sqrt{4}$
 - ☒ 3. $\sqrt{28} - 5$
 - ☒ 4. $\sqrt{18} - 4$

Question ID : 6009293714
Status : Marked For Review
Chosen Option : 2

Q.16 What is the average of first 9 prime numbers?

- Ans
- ☒ 1. 10.77
 - ☒ 2. 11.33
 - ☒ 3. 10.1
 - ☒ 4. 11.11

Question ID : 6009293708
Status : Answered
Chosen Option : 4

Q.17 A dealer sold $\frac{5}{6}$ th of his goods at 30 percent profit and the remaining at the cost price. What is his overall gain percent?

- Ans
- ☒ 1. 27.27 percent
 - ☒ 2. 25 percent
 - ☒ 3. 22.5 percent
 - ☒ 4. 30 percent

Question ID : 6009293701
Status : Answered
Chosen Option : 2

Q.18 A tank is normally filled in 4 hours. But it takes 5 hours to fill, when there is a leak at the bottom of the tank.
If the tank is full, in how many hours can it be emptied by the leak?

- Ans
- ☒ 1. 12
 - ☒ 2. 20
 - ☒ 3. 10
 - ☒ 4. 15

Question ID : 6009293698
Status : Answered
Chosen Option : 2

Q.19 Rina can complete a piece of work in 6 days while Seema can do the same work in 9 days. If they both work together, then how many days will be required to finish the work?

- Ans
- ☒ 1. 4 days
 - ☒ 2. 10 days
 - ☒ 3. 7.3 days
 - ☒ 4. 3.6 days

Question ID : 6009293700
Status : Answered
Chosen Option : 4

Q.20 A and B can together complete a task in 16 days. They started a task together and after 4 days A leave, B takes 24 days to finish the rest of the task. How many days would B have taken to do the task if he worked alone?

- Ans
- ☒ 1. 30 days
 - ☒ 2. 24 days
 - ☒ 3. 32 days
 - ☒ 4. 34 days

Question ID : 6009293711
Status : Answered
Chosen Option : 3

Section : Reasoning Logical aptitude

Q.1 Select the option that is related to the third term on the same basis as the second term is related to the first term.

ACT : BFY :: BAD : ?

- Ans
- ☒ 1. DCI
 - ☒ 2. CDI
 - ☒ 3. CID
 - ☒ 4. ICD

Question ID : 6009293721
Status : Answered
Chosen Option : 2

Q.1 What is the average of 132, 146, 218, 232, 321 and 223?

- Ans  1. 214
 2. 212
 3. 208
 4. 218

Question ID : 6009293608
Status : Answered
Chosen Option : 2

Q.2 Speed of a car is 45 km/hr. How much distance can it travel in 50 seconds?

- Ans  1. 650 metre
 2. 575 metre
 3. 550 metre
 4. 625 metre

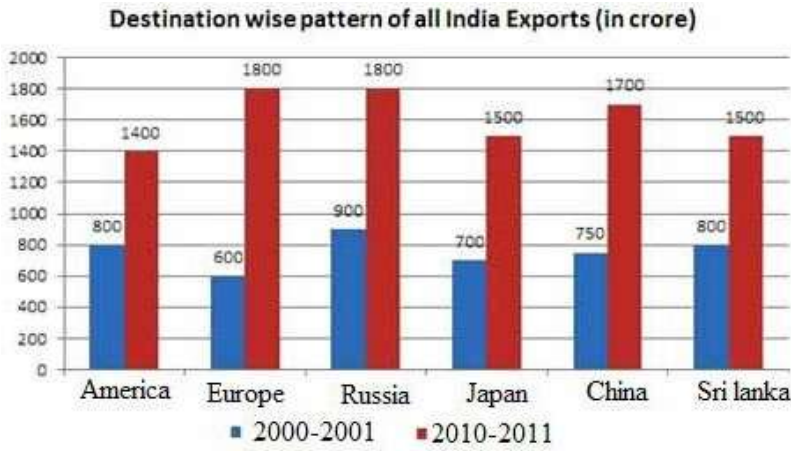
Question ID : 6009293611
Status : Answered
Chosen Option : 4

Q.3 Alloy A contains iron and copper in ration 4 : 5. Alloy B contains iron and copper in ratio 3 : 4. If 45 kg of alloy A and 63 kg of alloy B are mixed, then what is the final ratio of copper and iron?

- Ans  1. 61 : 47
 2. 64 : 47
 3. 59 : 45
 4. 57 : 41

Question ID : 6009293612
Status : Answered
Chosen Option : 1

Q.4 Study the following graph to answer the question.



India's exports to which of the following regions increased most in terms of percentage between 2000-01 and 2010 – 2011?

- Ans
- ☒ 1. Japan
 - ☒ 2. Russia
 - ☒ 3. China
 - ☒ 4. Europe

Question ID : 6009293606
Status : Answered
Chosen Option : 2

Q.5 Ratio of milk and water in two mixtures A and B is 3 : 2 and 4 : 3 respectively. If A and B are mixed in the ratio of 1 : 2, then what is the ratio of milk and water in final mixture?

- Ans
- ☒ 1. 61 : 44
 - ☒ 2. 51 : 46
 - ☒ 3. 63 : 46
 - ☒ 4. 57 : 41

Question ID : 6009293610
Status : Answered
Chosen Option : 1

Q.6 In a bookstore, the average number of Biology, Chemistry, and Physics books is 360. The number of Biology books is 180 more than the average number of Chemistry and Physics books. The number of Physics books is 180 less than the average number of Biology and Chemistry books. How many Chemistry books are there in the bookstore?

- Ans
- ☒ 1. 540
 - ☒ 2. 480
 - ☒ 3. 420
 - ☒ 4. 360

Question ID : 6009293604
Status : Not Answered
Chosen Option : --

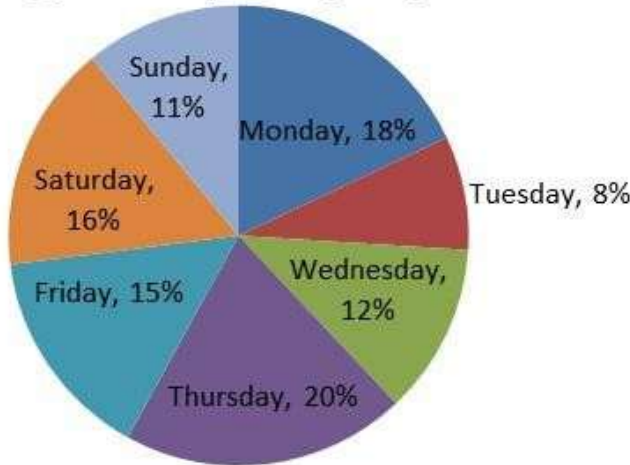
Q.7 If the volume of a room is 1680 m^3 and the area of the floor is 112 m^2 . Find the height of the room.

- Ans
- ☒ 1. 8 m
 - ☒ 2. 20 m
 - ☒ 3. 15 m
 - ☒ 4. 10 m

Question ID : 6009293614
Status : Answered
Chosen Option : 3

Q.8 The pie-chart given below represents the percentage distribution of the number of eggs sold by a shopkeeper on different days of a week.

Percentage distribution of the number of eggs sold by a shopkeeper



Find the ratio of the number of eggs sold by the shopkeeper on Wednesday to that of the same on Thursday.

- Ans
- ☒ 1. 4:7
 - ☒ 2. 4:9
 - ☒ 3. 3:5
 - ☒ 4. 2:5

Question ID : 6009293605
Status : Answered
Chosen Option : 3

Q.9 विभिन्न वर्षों में एक दुकान में विभिन्न वस्तुओं की बिक्री की तालिका में दी गई है।
किस वर्ष में जौ और धुलाई मचनो की बिक्री की कुल संख्या, टीवी की बिक्री की कुल संख्या से 100 अधिक हो गई?

वर्ष	टीवी	धुलाई मशीन	फ्रिज	एसी
1996	320	200	220	1500
1997	350	220	190	1700
1998	315	250	200	1800
1999	400	280	150	2000

- Ans  1. 1997
 2. 1996
 3. 1999
 4. 1998

Question ID : 6009293600
Status : Answered
Chosen Option : 2

Q.10 The marked price of a bicycle is ₹1500, which is 25% more than its cost price. If it is sold at a discount of 10%, find the profit percentage.

- Ans  1. 12.5 %
 2. 20 %
 3. 15 %
 4. 30 %

Question ID : 6009293597
Status : Answered
Chosen Option : 1

Q.11 The ratio of price of a mango and an apple is 3 : 2. If the total price of an apple and a mango is Rs. 100, then find the price of a mango.

- Ans  1. Rs. 40
 2. Rs.60
 3. Rs. 80
 4. Rs. 30

Question ID : 6009293599
Status : Answered
Chosen Option : 2

Q.12 Anshu takes twice as much time as Bablu and three times as much time as Chandu to complete a piece of work. Together, they complete the work in 3 days. How much time would Anshu take to complete the work alone?

- Ans  1. 24 days
 2. 12 days
 3. 3 days
 4. 18 days

Question ID : 6009293596
Status : Answered
Chosen Option : 4

Q.13 336, 528 तथा 240 का लघुगुणित समापवर्ती है?

- Ans ☒ 1. 16620
☒ 2. 17240
☒ 3. 19200
☒ 4. 18480

Question ID : 6009293607
Status : Answered
Chosen Option : 4

Q.14 Find the volume of cone which has base radius as 7 cm and height as 12 cm. (The value of π is 22/7)

- Ans ☒ 1. 576 cm³
☒ 2. 616 cm³
☒ 3. 512 cm³
☒ 4. 289 cm³

Question ID : 6009293601
Status : Answered
Chosen Option : 2

Q.15 A sum of money becomes 6 times at simple interest in 15 years. What is the rate of interest?

- Ans ☒ 1. 33.33 percent
☒ 2. 16.75 percent
☒ 3. 30.5 percent
☒ 4. 8.5 percent

Question ID : 6009293598
Status : Answered
Chosen Option : 1

Q.16 A number is increased by 10 percent. Then it is decreased by 20 percent. If the final value of number is 528, then what is the initial value of number?

- Ans ☒ 1. 500
☒ 2. 650
☒ 3. 550
☒ 4. 600

Question ID : 6009293609
Status : Answered
Chosen Option : 4

Q.17 किसी पुल निर्माण स्थल पर मजदूरों की दो टीमों I और II हैं। प्रत्येक टीम में W मजदूर हैं। किसी विशेष दिन, एक मजदूर को टीम I से टीम II में स्थानांतरित किया जाता है। अब, यदि टीम I द्वारा (W + 1) h (घंटे) और टीम II द्वारा (W + 2) h (घंटे) में किए गए कार्य की मात्रा का अनुपात क्रमशः 10 : 12 है, तो W का मान कितने के बराबर है?

- Ans
- ☒ 1. 24
 - ☒ 2. 16
 - ☒ 3. 18
 - ☒ 4. 20

Question ID : 6009293602
Status : Not Answered
Chosen Option : --

Q.18 कोई दूधवाला, दूध से भरे बड़े ड्रम को क्रमशः 6, 9, 15 और 18 लीटर क्षमता वाले चार मापी-जारों में से एक जार से खाली करना चाहता है। वह पाता है कि ड्रम को खाली करने के लिए वह चाहे जिस जार का उपयोग करे, 4 लीटर दूध उस ड्रम में हमेशा बचा ही रहता है। यदि ड्रम की क्षमता 7 की गुणज है, तो इसकी न्यूनतम संभावित क्षमता कितनी है?

- Ans
- ☒ 1. 187 लीटर
 - ☒ 2. 364 लीटर
 - ☒ 3. 94 लीटर
 - ☒ 4. 191 लीटर

Question ID : 6009293603
Status : Answered
Chosen Option : 2

Q.19 Speed of train is 55 km/hr. The length of train is 800 metre. In how much time can it cross a 1400 metre long platform?

- Ans
- ☒ 1. 132 seconds
 - ☒ 2. 96 seconds
 - ☒ 3. 124 seconds
 - ☒ 4. 144 seconds

Question ID : 6009293613
Status : Answered
Chosen Option : 4

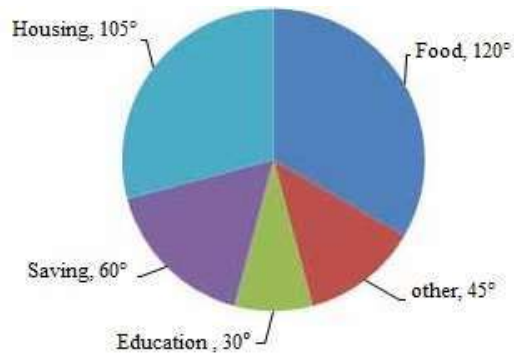
Q.20 Find the compound interest earned on Rs. 60,000 for 2 years at the rate of 5 percent per annum.

- Ans
- ☒ 1. Rs. 6000
 - ☒ 2. Rs. 6150
 - ☒ 3. Rs. 60,000
 - ☒ 4. Rs. 66,150

Question ID : 6009293595
Status : Answered
Chosen Option : 2

Q.1 The pie chart given here shows expenditures incurred by a family on various items and their savings, which amount to Rs. 8,000 in a month.

Study the chart and answer the question based on the pie chart.



How much more amount is spent on food than on housing?

- Ans
- ☒ 1. Rs. 1,000
 - ☒ 2. Rs. 2,500
 - ☒ 3. Rs. 2,000
 - ☒ 4. Rs. 3,000

Question ID : 6009293705

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.2 Shagun and Sheetal have 40 kg and 50 kg apples respectively. Richa takes 30 percent apples from Shagun and 46 percent apples from Sheetal. Approximately what percent of total apples are Shagun and Sheetal left with?

- Ans
- ☒ 1. 53 percent
 - ☒ 2. 61 percent
 - ☒ 3. 67 percent
 - ☒ 4. 49 percent

Question ID : 6009293704

Status : Answered

Chosen Option : 2

Q.3 Speed of a boat in still water is 10 km/hr. If speed of stream is 2 km/hr, then how much distance can the boat travel downstream in 2.5 hours?

- Ans
- ☒ 1. 30 km
 - ☒ 2. 24 km
 - ☒ 3. 32 km
 - ☒ 4. 28 km

Question ID : 6009293707

Status : Answered

Chosen Option : 1

Q.4 A certain sum of money amounts to Rs. 1331 in 3 years at 10 per cent compounded annually. Find the sum invested.

- Ans
- ☐ 1. Rs. 1050
 - ☒ 2. Rs. 1000
 - ☐ 3. Rs. 1132
 - ☐ 4. Rs. 1100

Question ID : 6009293697
Status : Answered
Chosen Option : 2

Q.5 Circumference of a circle is equal to the perimeter of a square. What is the ratio of area of circle to the area of square? (The value of π is $22/7$)

- Ans
- ☒ 1. 14 : 11
 - ☐ 2. 18 : 11
 - ☐ 3. 27 : 22
 - ☐ 4. 31 : 22

Question ID : 6009293710
Status : Answered
Chosen Option : 1

Q.6 Salary of Ram is 20 per cent more than Shyam's. By what percent is Shyam's salary less than Ram.

- Ans
- ☐ 1. 20.10
 - ☒ 2. 16.66
 - ☐ 3. 19.25
 - ☐ 4. 18.75

Question ID : 6009293712
Status : Answered
Chosen Option : 2

Q.7 Which of the following is correct?

- Ans
- ☒ 1. $\sqrt[6]{8} > \sqrt[4]{3} > \sqrt[3]{2} > \sqrt[12]{12}$
 - ☐ 2. $\sqrt[4]{3} > \sqrt[6]{8} > \sqrt[12]{12} > \sqrt[3]{2}$
 - ☐ 3. $\sqrt[4]{3} > \sqrt[6]{8} > \sqrt[3]{2} > \sqrt[12]{12}$
 - ☐ 4. $\sqrt[3]{2} > \sqrt[4]{3} > \sqrt[6]{8} > \sqrt[12]{12}$

Question ID : 6009293706
Status : Answered
Chosen Option : 1

Q.8 A, B and C start a partnership. They invested Rs. 45000, Rs. 36000 and Rs. 54000 respectively. They stayed in partnership for 4 years, 3 years and 2 years. If B's share in profit is Rs. 1800, then what is the total profit?

Ans  1. Rs. 6000

 2. Rs. 6600

 3. Rs. 7200

 4. Rs. 7000

Question ID : 6009293709

Status : Answered

Chosen Option : 2

Q.9 Simplify the following.

$$7\frac{1}{2} \div \left\{ 4\frac{1}{4} - \frac{1}{2} \times \left(2\frac{1}{2} - 1\frac{1}{4} - \frac{3}{4} \right) \right\}$$

Ans  1. 4.5

 2. 7.25

 3. 1.875

 4. 5.75

Question ID : 6009293695

Status : Answered

Chosen Option : 3

Q.10 Present ratio of the ages of Babita and Sunita is 7 : 9. 5 years ago, this ratio was 1:2. Find the present age of Babita.

Ans  1. 9 years

 2. 14 years

 3. 7 years

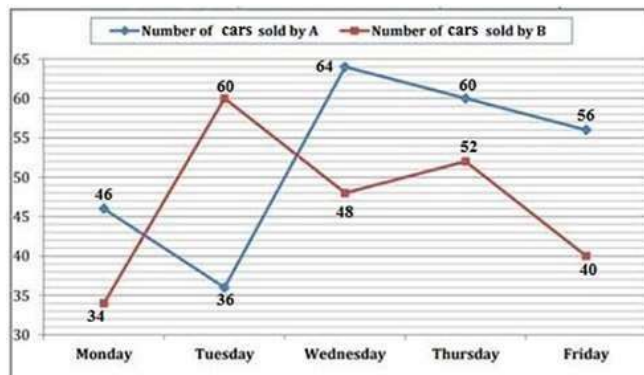
 4. 21 years

Question ID : 6009293696

Status : Answered

Chosen Option : 3

Q.11 A line graph is given below which shows the number of cars sold by seller A and seller B on five days.



Find the number of cars sold on Sunday by A and B together, if number of cars sold on Sunday is $16\frac{2}{3}$ percent more than the cars sold on Friday by A and B together?

- Ans
- ☒ 1. 116
 - ☒ 2. 112
 - ☒ 3. 114
 - ☒ 4. 120

Question ID : 6009293702

Status : Answered

Chosen Option : 2

Q.12 Find the curved surface area of cone whose height is 3 m and radius is 4 m. (approximate value) (The value of π is $22/7$)

- Ans
- ☒ 1. 63 m^2
 - ☒ 2. 33 m^2
 - ☒ 3. 45 m^2
 - ☒ 4. 79 m^2

Question ID : 6009293699

Status : Answered

Chosen Option : 1

Q.13 The given table shows the number of employees appointed by different organizations in the given years.

Year	Organizations					
	P	Q	R	S	T	U
2007	92	102	84	100	95	98
2008	104	107	94	99	96	105
2009	96	119	93	102	98	103
2010	101	100	86	88	97	107
2011	85	117	84	103	102	99
2012	88	97	89	100	103	102

In the year 2008, the number of employees appointed by the organization R is how much percentage more from the previous year ? (Around the nearest integer)

- Ans  1. 12
-  2. 14
-  3. 16
-  4. 10

Question ID : 6009293703
Status : Answered
Chosen Option : 1

Q.14 What should come in place of question mark (?) in the following question ?

$$27\frac{1}{2} + 15\frac{3}{4} - 12\frac{2}{5} + 18\frac{4}{5} = ?$$

- Ans  1. $49\frac{13}{20}$
-  2. $48\frac{13}{20}$
-  3. $49\frac{33}{20}$
-  4. 49

Question ID : 6009293713
Status : Answered
Chosen Option : 1

Q.15 Which of the following is smallest?

Ans

- ☐ 1. $\sqrt{9} - \sqrt{7}$
- ☐ 2. $\sqrt{6} - \sqrt{4}$
- ☐ 3. $\sqrt{28} - 5$
- ☒ 4. $\sqrt{18} - 4$

Question ID : 6009293714

Status : **Marked For Review**

Chosen Option : 2

Q.16 What is the average of first 9 prime numbers?

Ans

- ☐ 1. 10.77
- ☐ 2. 11.33
- ☐ 3. 10.1
- ☒ 4. 11.11

Question ID : 6009293708

Status : **Answered**

Chosen Option : 4

Q.17 A dealer sold $\frac{5}{6}$ th of his goods at 30 percent profit and the remaining at the cost price. What is his overall gain percent?

Ans

- ☐ 1. 27.27 percent
- ☒ 2. 25 percent
- ☐ 3. 22.5 percent
- ☐ 4. 30 percent

Question ID : 6009293701

Status : **Answered**

Chosen Option : 2

Q.18 A tank is normally filled in 4 hours. But it takes 5 hours to fill, when there is a leak at the bottom of the tank.
If the tank is full, in how many hours can it be emptied by the leak?

Ans

- ☐ 1. 12
- ☒ 2. 20
- ☐ 3. 10
- ☐ 4. 15

Question ID : 6009293698

Status : **Answered**

Chosen Option : 2

Q.19 Rina can complete a piece of work in 6 days while Seema can do the same work in 9 days. If they both work together, then how many days will be required to finish the work?

Ans

- ☐ 1. 4 days
- ☐ 2. 10 days
- ☐ 3. 7.3 days
- ☒ 4. 3.6 days

Question ID : 6009293700

Status : Answered

Chosen Option : 4

Q.20 A and B can together complete a task in 16 days. They started a task together and after 4 days A leave, B takes 24 days to finish the rest of the task. How many days would B have taken to do the task if he worked alone?

Ans

- ☐ 1. 30 days
- ☐ 2. 24 days
- ☒ 3. 32 days
- ☐ 4. 34 days

Question ID : 6009293711

Status : Answered

Chosen Option : 3

Section : Reasoning Logical aptitude

Q.1 Select the option that is related to the third term on the same basis as the second term is related to the first term.

ACT : BFY :: BAD : ?

Ans

- ☐ 1. DCI
- ☒ 2. CDI
- ☐ 3. CID
- ☐ 4. ICD

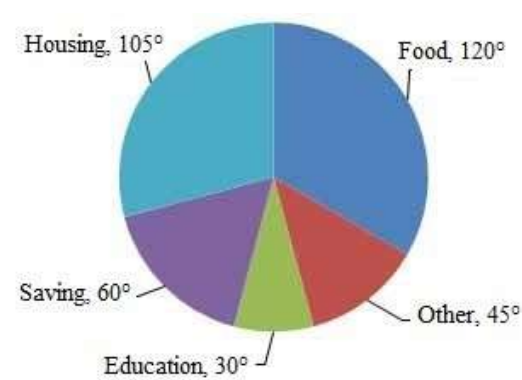
Question ID : 6009293721

Status : Answered

Chosen Option : 2

Q.2 The pie chart given here shows expenditures incurred by a family on various items and their savings, which amount to Rs. 8,000 in a month.

Study the chart and answer the question based on the pie chart.



The ratio of the expenditure on food to the savings is:

- Ans
- ☒ 1. 4 : 3
 - ☒ 2. 3 : 2
 - ☒ 3. 2 : 1
 - ☒ 4. 3 : 4

Question ID : 59445929360
Status : Answered
Chosen Option : 3

Q.3 If the radius of a cylinder is tripled and the height is halved, then what is the ratio between the new volume and the previous volume?

- Ans
- ☒ 1. 4 : 5
 - ☒ 2. 3 : 2
 - ☒ 3. 6 : 2
 - ☒ 4. 9 : 2

Question ID : 59445929352
Status : Answered
Chosen Option : 2

Q.4 A grocer mixes two varieties of wheat and sells the mixture at ₹ 28 per kg to earn a profit of 25%. If the cost price of the first variety is twice that of the second, and he has mixed them in the ratio 2 : 3, then find the price per kg of the cheaper variety.

- Ans
- ☒ 1. ₹ 18
 - ☒ 2. ₹ 20
 - ☒ 3. ₹ 14
 - ☒ 4. ₹ 16

Question ID : 59445929344
Status : Not Answered
Chosen Option : --

Q.5 A rectangular wheat field has an area of 1682 sq.metres whereas its perimeter is $29^a \times 3^b \times 2^c$ metres. If the length and breadth are positive integers, then find the perimeter. (It is known that a, b, c are positive integers.)

Ans  1. 174 metres

 2. 58 metres

 3. 116 metres

 4. 87 metres

Question ID : 59445929355
Status : Not Answered
Chosen Option : --

Q.6 Manoj can complete a work in 15 days working 8 hours in a day and Santosh can complete it in 10 days working 9 hours in a day. If Manoj and Santosh together start working for 6 hours per day, in how many days will they complete the work?

Ans  1. $8\frac{4}{7}$

 2. 12

 3. 7

 4. $10\frac{4}{7}$

Question ID : 59445929346
Status : Answered
Chosen Option : 1

Q.7 At an election between three candidates P, Q and R, 20% of the votes polled were declared invalid. Out of the valid votes P gets 30% votes. The remaining valid votes were shared by Q and R in the ratio 11 : 9, respectively. If P has received 150 votes less than R, then find the total number of votes polled.

Ans  1. 12500

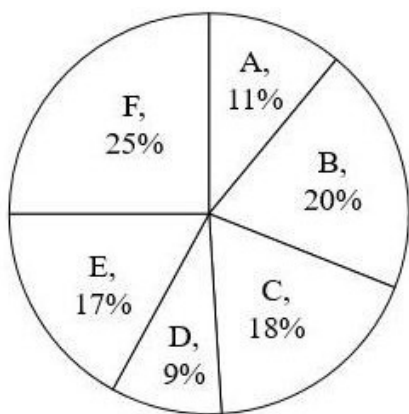
 2. 9000

 3. 10500

 4. 15000

Question ID : 59445929345
Status : Answered
Chosen Option : 1

Q.8 The pie chart given below shows the number of cars sold in 6 countries. Number of cars sold in a particular country are shown as a percentage of total number of cars sold in these 6 countries.



Which of the following statement(s) is/are correct?
I. Difference between the total central angle formed by A and F and total central angle formed by C and D is 32.4 degrees.
II. If the total number of cars sold in B, C and E is 12650, then the total number of cars sold in these 6 countries are 23000.

- Ans
- ☐ 1. Only II
 - ☐ 2. Only I
 - ☐ 3. Neither I nor II
 - ☒ 4. Both I and II

Question ID : 59445929351
Status : Answered
Chosen Option : 2

Q.9 Two items were sold at Rs. 9000 each. The first was sold at 50 percent loss and the second was sold at 50 percent profit. Find the total loss on selling both the items.

- Ans
- ☐ 1. Rs. 4500
 - ☐ 2. Rs. 2400
 - ☒ 3. Rs. 6000
 - ☐ 4. Rs. 1800

Question ID : 59445929343
Status : Not Answered
Chosen Option : --

Q.10 If an article is sold at a discount of 30% to the marked price, it makes a loss of 20%. At what per cent discount on the marked price will it break even?

- Ans
- ☐ 1. 20%
 - ☐ 2. 10.5%
 - ☒ 3. 12.5%
 - ☐ 4. 15%

Question ID : 59445929347
Status : Not Answered
Chosen Option : --

Q.11 What will be the square root of the remainder when 5 divides 129^{76} ?

- Ans  1. 1
-  2. 9
-  3. 4
-  4. 2

Question ID : 59445929353
Status : Not Answered
Chosen Option : --

Q.12 Study the following table carefully and answer the question given below it:

Number of candidates appearing for an interview for a post in various Banks and percentage of candidates qualifying.

Bank	Candidates Appearing	% of Candidates Qualifying
H	1500	14
I	2200	26
J	3000	17
K	980	20
L	1200	28
M	2500	21

What was the difference between the number of candidates who qualified in banks I and J together and the number of candidates who did not qualify in the same banks?

- Ans  1. 3032
-  2. 3036
-  3. 3040
-  4. 3028

Question ID : 59445929348
Status : Not Answered
Chosen Option : --

Q.13 60 percent students in a school are boys. 40 percent boys passed in the examination. If 35 percent of total students passed the examination, then what percent of girls failed the examination?

- Ans  1. 72.5
-  2. 29
-  3. 56.5
-  4. 60

Question ID : 59445929350
Status : Not Answered
Chosen Option : --

Q.14

If $\frac{a}{b} : \frac{c^2}{d^2} : \frac{e^3}{f^3} = 16$, then find the value of $\sqrt{\frac{a^2+c^4+e^6}{b^2+d^4+f^6}} + \sqrt{\frac{b^2+d^4+f^6}{a^2+c^4+e^6}}$.

Ans

- ☒ 1. $\frac{257}{16}$
- ☐ 2. $\frac{256}{16}$
- ☐ 3. $\frac{257}{15}$
- ☐ 4. $\frac{265}{16}$

Question ID : 59445929354

Status : Not Answered

Chosen Option : --

Q.15 On selling 32 chairs at Rs. 2800, there is a loss equal to the cost price of 4 chairs. The cost price of a chair is:

Ans

- ☒ 1. Rs. 100
- ☐ 2. Rs. 120
- ☐ 3. Rs. 280
- ☐ 4. Rs. 98

Question ID : 59445929357

Status : Not Answered

Chosen Option : --

Q.16 Select the odd one from the following options.

Ans

- ☐ 1. $0.2 \times 0.5 + 0.3 \times 0.5$
- ☐ 2. $0.4 \times 0.5 \times 2.5 \times 0.5$
- ☒ 3. $1.5 \times 0.04 + 0.4 \times 0.5$
- ☐ 4. $0.2 \times 0.7 + 0.2 \times 0.55$

Question ID : 59445929359

Status : Not Answered

Chosen Option : --

Q.17 Smaller diagonal of a rhombus is equal to length of its sides. If length of each side is 4 cm, then what is the area (in square cm) of an equilateral triangle with side equal to the bigger diagonal of the rhombus?

Ans

- ☒ 1. $12\sqrt{3}$
- ☐ 2. 6
- ☐ 3. 12
- ☐ 4. $9\sqrt{3}$

Question ID : 59445929358

Status : Not Answered

Chosen Option : --

Q.18 A is 5 percent more than B and B is 10 percent more than C, then by what percentage is A more than C.

- Ans
- ☐ 1. 20 percent
 - ☒ 2. 15.5 percent
 - ☐ 3. 10 percent
 - ☐ 4. 12 percent

Question ID : 59445929356
Status : Not Answered
Chosen Option : --

Q.19 If $(2P + Q) : (Q + R) = (Q - P) : (Q - R) = 4 : 3$, then what is the value of P: Q: R?

- Ans
- ☐ 1. 5: 7: 8
 - ☐ 2. 4: 6: 9
 - ☒ 3. 8: 12: 9
 - ☐ 4. 4: 3: 5

Question ID : 59445929342
Status : Not Answered
Chosen Option : --

Q.20 A can complete a work in 5 minutes, B in 6 minutes and C in 8 minutes. The average number of work completed per hour per worker for all three workers is:

- Ans
- ☐ 1. $\frac{56}{9}$
 - ☐ 2. $\frac{57}{5}$
 - ☐ 3. $\frac{52}{3}$
 - ☒ 4. $\frac{59}{6}$

Question ID : 59445929349
Status : Not Answered
Chosen Option : --

Section : Reasoning Logical aptitude

Q.1 In the following question, select the related number from the given alternatives.

49: 245 :: 37 : 148 :: 47 : ?

- Ans
- ☐ 1. 185
 - ☐ 2. 132
 - ☒ 3. 141
 - ☐ 4. 176

Question ID : 59445929376
Status : Not Answered
Chosen Option : --

Q.3 Average of 8 students is 15 years. If two more students of age 20 and 10 years join. What will be the new average age?

- Ans
- ☒ 1. 25
 - ☒ 2. 20
 - ☒ 3. 10
 - ☒ 4. Remain same

Question ID : 59445929458
Status : Answered
Chosen Option : 4

Q.4 If a and b are two real numbers such that $b > a$, $ab < 0$, the sum of their squares is 458 and the difference between their squares is 120, then find the value of $a - b$.

- Ans
- ☒ 1. 4
 - ☒ 2. -30
 - ☒ 3. 30
 - ☒ 4. -4

Question ID : 59445929448
Status : Not Answered
Chosen Option : --

Q.5 Find the value of $\sqrt{(1 + 3 + 5 + \dots + 93) \left(1 - \frac{1}{3}\right) \left(1 - \frac{1}{4}\right) \left(1 - \frac{1}{5}\right) \dots \left(1 - \frac{1}{2209}\right)}$.

- Ans
- ☒ 1. $\sqrt{2}$
 - ☒ 2. 4
 - ☒ 3. 2
 - ☒ 4. 3

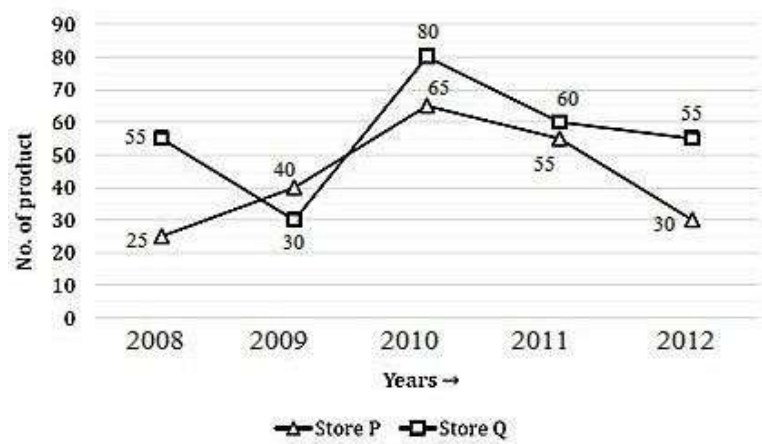
Question ID : 59445929449
Status : Answered
Chosen Option : 1

Q.6 A vegetable seller had some apples. He sells 50% apples and still has 650 apples left. Originally, he had _____ apples.

- Ans
- ☒ 1. 1300
 - ☒ 2. 850
 - ☒ 3. 700
 - ☒ 4. 1200

Question ID : 59445929459
Status : Answered
Chosen Option : 1

Q.7 Line-graph given below shows the total no. of products in two different stores P & Q in five different years.

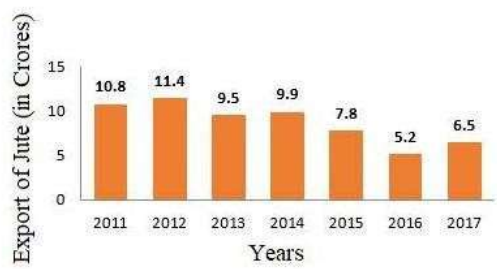


What is the difference between total number of products in store Q in year 2010 & 2011 together and total number of products in store P in year 2008 and 2012 together?

- Ans
- ☒ 1. 20
 - ☒ 2. 15
 - ☒ 3. 85
 - ☒ 4. 90

Question ID : 59445929460
Status : Answered
Chosen Option : 3

Q.8 The given bar graph shows the export of jute by a company over the years 2011 to 2017.



Which of the following pairs of years has the maximum percentage of decrease in export?

- Ans
- ☒ 1. 2014-2015
 - ☒ 2. 2015-2016
 - ☒ 3. 2012-2013
 - ☒ 4. 2011-1012

Question ID : 59445929445
Status : Answered
Chosen Option : 2

Q.9 A can finish a task in 6 days by working for 8 hours/day and B has the capacity to finish the same task in 8 days by working for 6 hours/day. In how many days will they finish it together by working 4 hours a day?

- Ans ☒ 1. 6 days
- ☒ 2. 12 days
- ☒ 3. 9 days
- ☒ 4. 8 days

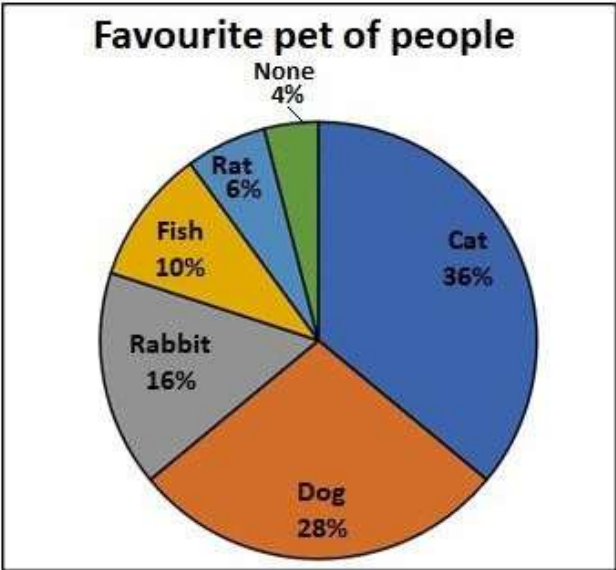
Question ID : 59445929452
Status : Answered
Chosen Option : 1

Q.10 If $(x + a)$ is a common factor of $x^2 - (2 + \sqrt{2})x + 2\sqrt{2}$ and $x^2 - 2\sqrt{2}x + 2$, then the value of $\sqrt{(5\sqrt{2} - a)3\sqrt{2}}$ is:

- Ans ☒ 1. 6
- ☒ 2. 4
- ☒ 3. 8
- ☒ 4. 2

Question ID : 59445929456
Status : Not Answered
Chosen Option : --

Q.11 Rama did a survey where she asked all the people in her apartment to name their favourite pet. The results are shown in the pie-chart. If 48 people said their favourite pet was a rabbit then, how many persons said that their favourite pet was a cat?



- Ans ☒ 1. 84
- ☒ 2. 30
- ☒ 3. 18
- ☒ 4. 108

Question ID : 59445929447
Status : Answered
Chosen Option : 4

Q.12 L.C.M. of two numbers is 15 times of their H.C.F. The product of numbers is 4860. What will be the maximum possible difference between the numbers?

- Ans
- ☒ 1. 36
 - ☒ 2. 90
 - ☒ 3. 252
 - ☒ 4. 270

Question ID : 59445929443
Status : Answered
Chosen Option : 3

Q.13 A number is divided into two parts in the ratio of 5 : 6 respectively. The sum of 60 percent of first part and 50 percent of second part is 84. If both parts are increased by 10, then what will be the respective ratio between the sum of old numbers and new numbers?

- Ans
- ☒ 1. 75 : 87
 - ☒ 2. 73 : 87
 - ☒ 3. 77 : 87
 - ☒ 4. 71 : 87

Question ID : 59445929442
Status : Answered
Chosen Option : 3

Q.14 If the value of x satisfies the equation $\frac{125 \times 4 - x \times 2}{x + 50} = \frac{200}{x}$, then the sum of all the possible values of x is?

- Ans
- ☒ 1. 200
 - ☒ 2. 100
 - ☒ 3. 250
 - ☒ 4. 150

Question ID : 59445929455
Status : Answered
Chosen Option : 2

Q.15 The remainder when 731^{732} is divided by 9 is 'a'. Then the unit's place of a^{332211} is:

- Ans
- ☒ 1. 3
 - ☒ 2. 2
 - ☒ 3. 1
 - ☒ 4. 4

Question ID : 59445929454
Status : Answered
Chosen Option : 3

Q.16 The speed of a plane was raised by 60% by the pilot and then the raised speed was reduced by 50%. The speed measured by the sonic radar at this point of time was 2400 km/h. Find the initial speed of the plane.

- Ans
- ☒ 1. 2400 km/h
 - ☒ 2. 3200 km/h
 - ☒ 3. 2800 km/h
 - ☒ 4. 3000 km/h

Question ID : 59445929450
Status : Answered
Chosen Option : 4

Q.17 If $(a + b - 1)^2 + (b + c - 9)^2 + (c + a - 4)^2 \leq 0$, then the value $\sqrt{(a + b)^c + (c + a)^b - 1}$ is:

- Ans
- ☒ 1. 7
 - ☒ 2. 8
 - ☒ 3. 9
 - ☒ 4. 6

Question ID : 59445929457
Status : Answered
Chosen Option : 2

Q.18 M can do a piece of work in 20 days. He works at it alone for 5 days and N alone finishes the remaining work in 9 days. In how many days, both of them together can complete the work ?

- Ans
- ☒ 1. 12.5 days
 - ☒ 2. 10 days
 - ☒ 3. 8 days
 - ☒ 4. 7.5 days

Question ID : 59445929441
Status : Answered
Chosen Option : 4

Q.19 In a lock making factory, 5 percent of the total produced locks were found defective and 80 percent of the non-defective locks were exported. If 85500 non-defective locks were not exported, then how many locks produced?

- Ans
- ☒ 1. 475000
 - ☒ 2. 450000
 - ☒ 3. 427500
 - ☒ 4. 395000

Question ID : 59445929444
Status : Answered
Chosen Option : 2

2/24/2021

Q.20 A regular polygon is having $4p + 2$ as the number of its sides where p is a positive integer. What will be the ratio of the measure of its interior angle to that of its exterior angle?

Ans  1. $p : 2$

 2. $p : 1$

 3. $1 : p$

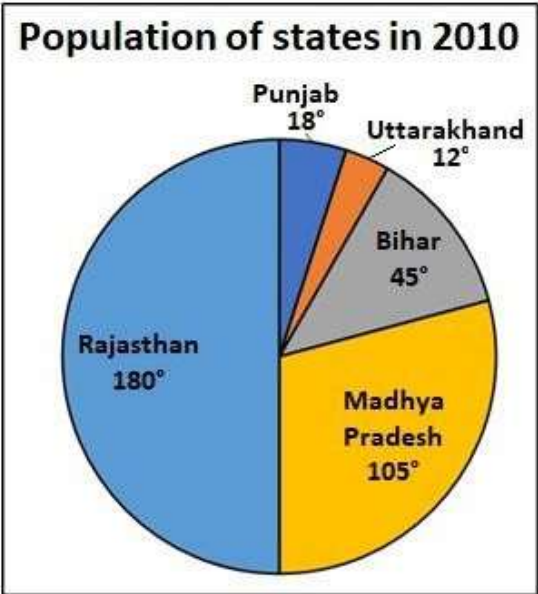
 4. $2p : 1$

Question ID : **59445929453**

Status : **Answered**

Chosen Option : **4**

Q.1 The following pie chart shows the population of 5 states of India in 2010. What is the population of Rajasthan if the total population of these 5 states is 16200000?



- Ans
- ✓ 1. 8100000
 - ✗ 2. 810000
 - ✗ 3. 4725000
 - ✗ 4. 540000

Question ID : 59445929547
Status : Answered
Chosen Option : 1

Q.2 If $x > 0$ and $x^1 + x^{-1} \leq 2$, then what is the value of $(x^1 + x^{-1})^1 + (x^2 + x^{-2})^2 + (x^3 + x^{-3})^3 + \dots (x^{11} + x^{-11})^{11}$ is:

- Ans
- ✗ 1. 4210
 - ✗ 2. 5234
 - ✗ 3. 4864
 - ✓ 4. 4094

Question ID : 59445929556
Status : Answered
Chosen Option : 4

Q.3 A sum of Rs. 20000 is invested for three years at compound interest. The rate of interest for first year is 20 percent per annum, for second year it is 15 percent per annum and for third years it is 10 percent per annum. Find the interest for the third year.

- Ans
-  1. Rs. 2190
 -  2. Rs. 2620
 -  3. Rs. 2760
 -  4. Rs. 2340

Question ID : 59445929558
Status : Not Answered
Chosen Option : --

Q.4 A bathtub can be filled by a cold pipe in 15 minutes and by a hot pipe in 10 minutes. A man opens both the taps at 7 a.m. and leaves the bathroom. He returns at the time when the tub was expected to be full, but he observes that the waste pipe in the bottom was open and the tub was not full. He now closes it, and it takes 4 more minutes before the tank is full. After using the bathtub for 10 minutes, he opens the waste pipe. At what time will the tub be empty?

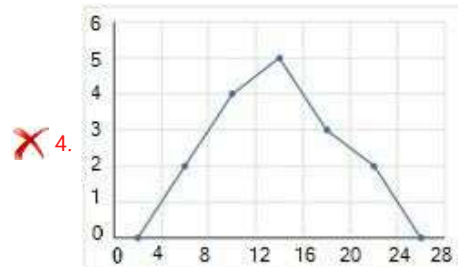
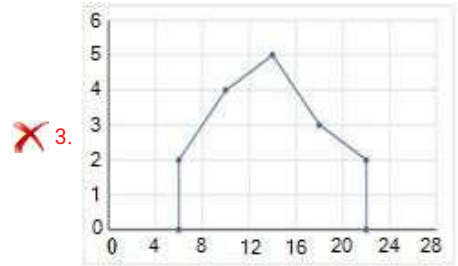
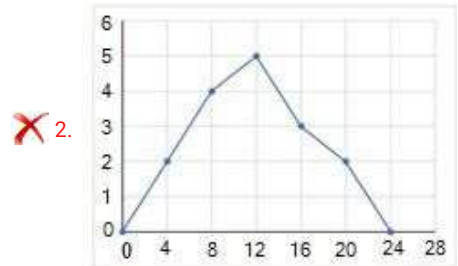
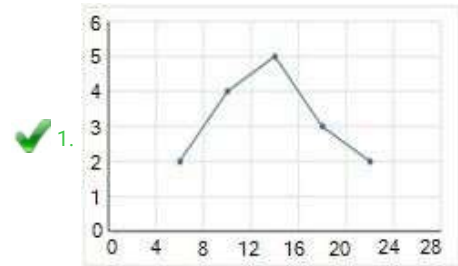
- Ans
-  1. 33 minutes past 7 a.m.
 -  2. 31 minutes past 7 a.m.
 -  3. 29 minutes past 7 a.m.
 -  4. 27 minutes past 7 a.m.

Question ID : 59445929542
Status : Not Answered
Chosen Option : --

Q.5 Which of the given frequency polygons represents the following frequency distribution?

Class	4 - 8	8 - 12	12 - 16	16 - 20	20 - 24
Frequency	2	4	5	3	2

Ans



Question ID : 59445929541
Status : Answered
Chosen Option : 1

Q.6

If b is the mean proportion to a and c with a common ratio $\sqrt[3]{\frac{2}{3}}$, then $(a - b)^3 : (b - c)^3$ is:

- Ans
- ☐ 1. 3 : 2
 - ☐ 2. 1 : 1
 - ☒ 3. 2 : 3
 - ☐ 4. 1 : 2

Question ID : 59445929554
Status : No t Answered
Chosen Option : --

Q.7 Populat ion of a city is 148000 and out of which 78000 are males and 40 percent population is lit erat e. If 55 percent males are lit erat e, then what is t he number of females who are lit erat e?

- Ans
- ☐ 1. 14200
 - ☐ 2. 18500
 - ☐ 3. 15800
 - ☒ 4. 16300

Question ID : 59445929559
Status : Answered
Chosen Option : 4

Q.8 Five bells commence tolling toget her and toll at int ervals of 2, 4, 9, 12 and 15 seconds respect ively. In 45 minut es, how many t imes do t hey toll toget her?

- Ans
- ☐ 1. 8
 - ☐ 2. 10
 - ☒ 3. 16
 - ☐ 4. 15

Question ID : 59445929545
Status : Answered
Chosen Option : 3

Q.9 A = 1200 – X where X is a real number. A > 0 and A is divisible by 3, 5, 7 and 11. The sum of t he t wo largest possible value of X is:

- Ans
- ☐ 1. 45
 - ☐ 2. 55
 - ☐ 3. -1110
 - ☒ 4. -1065

Question ID : 59445929548
Status : No t Answered
Chosen Option : --

Q.10 A chord, at a distance of 1 unit from the centre, has a length equal to $k^2 \sin\left(\frac{\pi}{4}\right)$ and the radius of the circle is $(-k) \sin\left(\frac{\pi}{3}\right)$. What is the value of k, if k is an integer?

- Ans
- ☐ 1. 4
 - ☐ 2. 2
 - ☒ 3. -2
 - ☐ 4. 3

Question ID : 59445929552
Status : No t Answered
Chosen Option : --

Q.11 The expression $(x - \sqrt{2})(x - \sqrt{4})$ goes through its minima at the value of $x = a$. Find the value of $2a - \sqrt{2}$.

- Ans
- ☐ 1. 0
 - ☐ 2. $\sqrt{2}$
 - ☐ 3. 1
 - ☒ 4. 2

Question ID : 59445929551
Status : No t Answered
Chosen Option : --

Q.12 Find the average of first 50 natural numbers.

- Ans
- ☐ 1. 50.15
 - ☐ 2. 20.75
 - ☐ 3. 51.3
 - ☒ 4. 25.5

Question ID : 59445929557
Status : Answered
Chosen Option : 4

Q.13 Raushan can complete the wall putting work in 6 days and Satyam can complete it in 12 days. While working together with Raghu, they completed the job in 2 days only. In how many days Raghu alone can complete the job?

- Ans
- ☐ 1. 8 Days
 - ☐ 2. 6 days
 - ☒ 3. 4 Days
 - ☐ 4. 12 Days

Question ID : 59445929555
Status : Answered
Chosen Option : 3

Q.14 The price of petrol rises by 60%. By what percentage should one minimise the use of petrol so that the expenditure towards petrol is not affected?

- Ans
- ☒ 1. 38.5
 - ☒ 2. 36.5
 - ☒ 3. 37.5
 - ☒ 4. 35.5

Question ID : 59445929549
Status : Not Answered
Chosen Option : --

Q.15 A fixed sum is lent out in two parts in such a way that the interest on the first part at 1 percent for 1 year is equal to that on the second part at 2% for 2 years. Find the square root of the ratio of the first part to the second part.

- Ans
- ☒ 1. 2
 - ☒ 2. 3
 - ☒ 3. 4
 - ☒ 4. 1

Question ID : 59445929553
Status : Not Answered
Chosen Option : --

Q.16 Study the table below and answer the question that follows. What is the average number of workers in IT team for the time span 2011 to 2014?

- Ans
- ☒ 1. 8
 - ☒ 2. 12
 - ☒ 3. 10
 - ☒ 4. 9

Question ID : 59445929543
Status : Answered
Chosen Option : 3

Q.17

- Ans
- ☒ 1. 32
 - ☒ 2.
 - ☒ 3. 25
 - ☒ 4.

Question ID : 59445929550
Status : Answered
Chosen Option : 2

Q.18 The graph shows the temperature variance of a city in degree celsius. Which month has seen the highest spike in temperature over the previous month, in terms of percentage?

- Ans
-  1. March
 -  2. April
 -  3. January
 -  4. February

Question ID : 59445929544
Status : Not Answered
Chosen Option : --

Q.19 Length of a rectangle is 7 cm more than its breadth and length of diagonal of the rectangle is 13 cm. What is the area of a square having perimeter same as the perimeter of given rectangle?

- Ans
-  1. 56.25 cm^2
 -  2. 72.25 cm^2
 -  3. 36.25 cm^2
 -  4. 42.25 cm^2

Question ID : 59445929560
Status : Not Answered
Chosen Option : --

Q.20 A bus is travelling at a constant speed of 48 Km/hr. What is the distance travelled by bus from 1:20 pm to 3:40 pm?

- Ans
-  1. 326 Km
 -  2. 144 Km
 -  3. 340 Km
 -  4. 112 Km

Question ID : 59445929546
Status : Not Answered
Chosen Option : --

1. The average price of 80 mobile phones is Rs.30,000. If the highest and lowest price mobile phones are sold out then the average price of remaining 78 mobile phones is Rs. 29,500. The cost of the highest mobile is Rs.80,000. The cost of lowest price mobile is? 80 मोबाइल फोन का औसत मूल्य रु 30,000 है। यदि अधिकतम और न्यूनतम मूल्य के मोबाइल फोन बेच दिये जाते हैं तो शेष 78 मोबाइल फोनों का औसत मूल्य रु 29,500 हो जाता है। अधिकतम मूल्य पर विक्रय होने वाले मोबाइल की कीमत रु 80,000 है। न्यूनतम मूल्य पर बिक्री होने वाले मोबाइल फोन की कीमत क्या होगी?

- (A) Rs. 18000 (B) Rs. 15000
(C) Rs. 19000 (D) Can't be determined/निश्चित नहीं कर सकते

2. In a Company the average income of all the employees is Rs. 20000 per month. Recently the company announced increment of Rs. 2000 per month for all the employees. The new average income of all the employees is? एक कंपनी में सभी कर्मचारियों की औसत आय प्रति महीना रु 20,000 है। हाल ही में कंपनी ने रु 2000 प्रति महीना की वृद्धि, सभी कर्मचारियों की आय में करने की घोषणा की है। सभी कर्मचारियों की नई औसत आय है:

- (A) Rs. 1,22000 (B) Rs. 24000 (C) Rs. 28000 (D) Rs. 26000

3. Pranav went to the bank at the speed of 60 km/h while returning for his home he covered the half of the distance at the speed of 10 km/h, but suddenly he realised that he was getting late so he increased the speed and reached the home by covering rest half of the distance at the speed of 30 km/h. The average speed of the Pranav in the whole length of journey is? प्रणव बैंक 60 किमी/घंटा की स्पीड पर गया था किन्तु घर वापसी के समय उसने आधी दूरी 10 किमी/घंटा की गति पर तय की। अचानक उसे लगा कि वह लेट हो रहा था तो उसने अपनी स्पीड बढ़ाई और बाकी बची हुई दूरी वह 30 किमी/घंटा की गति से तय करते हुए घर पहुंच गया। पूरी यात्रा में प्रणव की औसत गति क्या थी?

- (A) 24 km/h/24 किमी. प्रति घंटा (B) 14 km/h/14 किमी. प्रति घंटा
(C) 16 km/h/16 किमी. प्रति घंटा (D) 10 km/h/10 किमी. प्रति घंटा

4. The average expenditure of Mr. Sharma for the January to June is Rs. 4200 and he spent Rs. 1200 in January and Rs.1500 in July. The average expenditure for the months of February to July is? शर्माजी का जनवरी से जून तक का औसत खर्चा रु 4200 है और वह रु 1200 जनवरी में और 1500 जुलाई में व्यय करता है। फरवरी से जुलाई तक के महीनों का औसत खर्चा है?

- (A) Rs. 2750 (B) Rs. 3250 (C) Rs. 4250 (D) Rs. 4500

5. At the end of a business conference the ten people present all shake hands with each other once. How many handshakes will there be altogether? एक व्यापार सम्मेलन के अंत में, उपस्थित सभी 10 व्यक्ति एक दूसरे से एक बार हाथ मिलाते हैं। कुल मिलाकर वहां कितने बार हाथ मिलाए जाते हैं?

- (A) 20 (B) 45 (C) 55 (D) 90

6. The average presence of students of a class in a College on Monday, Tuesday and Wednesday is 32 and on the Wednesday, Thursday, Friday and Saturday is 30. If the average number of students on all the six days is 26 then the number of students who attended the class on Wednesday is? सोमवार, मंगलवार और बुधवार को कक्षा में विद्यार्थियों की

$$M + T + W = 96$$

$$W + T + FR + S = 120$$

$$156$$

$$96$$

$$60$$

$$36$$

$$24$$

$$60$$

उपस्थिति का औसत 32 और बुधवार, वीरवार, शुक्रवार एवं शनिवार को 30 होता है। यदि सभी छह दिन, विद्यार्थियों की औसत संख्या 26 है तो बुधवार को कक्षा में उपस्थित होने वाले विद्यार्थियों की संख्या बताएं?

- (A) 50 (B) 40 (C) 60 (D) 70

7. Suresh started his journey from P to Q by his bike at the speed of 40 km/h and then, the same distance he travelled on his foot at the speed of 10 km/h from Q to R. Then he returned from R to P via Q at the speed of 24 km/h. The average speed of the whole trip is: सुरेश अपनी यात्रा P से Q तक अपनी बाइक से 40 किमी. प्रति घंटा की गति से शुरू करता है और फिर समान दूरी वह पैदल 10 किमी. प्रति घंटा की गति से 'Q' से 'R' तक तय करता है। फिर वह R से P, Q के रास्ते 24 किमी. प्रति घंटा की गति से वापसी करता है। पूरी यात्रा की औसत गति है:

- (A) 18.5 km/h (B) 19.8 km/h (C) 18.2 km/h (D) 19.2 km/h

8. Ramesh walked 6 km to reach the station from his house, then he boarded a train whose average speed was 60 km/h and thus he reached his destination. In this way he took a total time of 3 hours. If the average speed of the entire journey was 32 km/h then the average speed of walking is: रमेश अपने घर से स्टेशन तक पहुंचने के लिए 6 किमी. पैदल चलता है, फिर वह एक रेल में चढ़ जाता है जिसकी औसत गति 60 किमी. प्रति घंटा है, और वह अपनी गंतव्य स्थान तक पहुंच जाता है। इस प्रकार से वह कुल तीन घंटे का समय लेता है। यदि पूरी यात्रा की गति औसत गति 32 किमी. प्रति घंटा थी तो पैदल चलने की औसत गति थी:

- (A) 5 km/h (B) 8 km/h (C) 2 km/h (D) 4 km/h

9. Bala travels first one-third of the total distance at the speed of 10 km/h and the next one-third distance at the speed of 20 km/h and the last one – third distance at the speed of 60 km/h. What is the average speed of Bala? बाला यात्रा की कुल दूरी का एक तिहाई 10 किमी प्रति घंटा की गति से और अगली एक तिहाई दूरी 20 किमी. प्रति घंटा की गति से और आखिरी एक तिहाई 60 किमी. प्रति घंटा की गति से तय करता है। बाला की औसत गति क्या है?

- (A) 18 km/h (B) 19 km/h (C) 16 km/h (D) 12 km/h

10. The distance of the School and house of Suresh is 80 km. One day he was late by 1 hour than the normal time to leave for the college, so he increased his speed by 4 km/h and thus he reached to college at the normal time. What is the changed speed of Suresh? सुरेश के विद्यालय और घर के बीच की दूरी 80 किमी. है। एक दिन वह विद्यालय जाने के लिए घर छोड़ने के सामान्य समय से एक घंटा लेट था तो उसने अपनी गति 4 किमी. प्रति घंटा की दर से बढ़ाई और इस तरह वह विद्यालय अपने सामान्य समय पर पहुंच गया। सुरेश की बदली हुई गति क्या थी?

- (A) 28 km/h (B) 25 km/h (C) 20 km/h (D) 24 km/h

11. Anita goes to College at 20 km/h and reaches college 4 minutes late. Next time she goes at 25 km/h and reaches the college 2 minutes earlier than the scheduled time. What is the distance of her school? अनीता कॉलेज 20 किमी. प्रति घंटा की गति से जाकर 4 मिनट लेट पहुंचती है। अगली बार वह 25 किमी. प्रति घंटा की गति से जाकर निर्धारित समय से 2 मिनट पूर्व पहुंचती है। उसके कालेज की दूरी क्या है?

- (A) 16 km (B) 12 km (C) 15 km (D) 10 km

$$\frac{x}{25} - \frac{x}{20} = \frac{6}{60} = \frac{1}{10}$$

$$\frac{5x - 4x}{100} = \frac{1}{10}$$

$$10x = 100$$

12. Two places R and S are 800 km apart from each other. Two persons start from R towards S at an interval of 2 hours. Whereas A leaves R for S before B. The speeds of A and B are 40 km/h and 60 km/h respectively. B overtakes A at M, which is on the way from R to S. What is the ratio of time taken by A and B to meet at M? दो स्थान R और S एक दूसरे से 800 किमी दूर हैं। दो व्यक्ति R से S की ओर जाने के लिए दो घंटे के अंतराल में शुरू करते हैं। जबकि A, S से पहले R के लिए निकलता है। A और B दोनों की गति क्रमशः 40 और 60 किमी. प्रति घंटा है। B, M पर A से आगे निकल जाता है, जो कि R से S के रास्ते पर है। M पर मिलने के लिए A और B किस अनुपात में समय लेते हैं?

- (A) 1:3 (B) 1:2 (C) 1:4 (D) 3:2

13. Two places R and S are 800 km apart from each other. Two persons start from R towards S at an interval of 2 hours. Whereas A leaves R for S before B. The speeds of A and B are 40 km/h and 60 km/h respectively. B overtakes A at M, which is on the way from R to S. What is the distance from R, where B overtakes A? दो स्थान R और S एक दूसरे से 800 किमी दूर हैं। दो व्यक्ति R से S की ओर दो घंटे के अंतराल में शुरू करते हैं। जबकि A, R के लिए, S के B के लिए निकलने से पहले निकलता है। A और B दोनों की गति क्रमशः 40 और 60 किमी/घंटा है। B, M पर A से आगे निकल जाता है, जो कि R से S के रास्ते पर है। जहां पर B, A से आगे निकल जाता है, वह R से कितनी दूरी पर है?

- (A) 260 km (B) 235 km (C) 240 km (D) 300 km

14. Ajay covers certain distance with his own speed but when he reduces his speed by 10 km/h, his time duration for the journey increases by 40 hours while if, he increases his speed by 5 km/h from his original speed, he takes 10 hours less than the original time taken. Find the distance covered by him. अजय एक निश्चित दूरी अपनी गति से तय करता है पर जब वह अपनी गति में 10 किमी/घंटा की कमी लाता है तो उसकी यात्रा की समयावधि 40 घंटे बढ़ जाती है, जबकि यदि वह अपनी गति को अपनी सामान्य गति से 5 किमी/घंटा बढ़ाता है, तब वह अपनी मूल समय से 10 घंटा कम लेता है। उसके द्वारा तय की गई दूरी बताएं?

- (A) 1000 km किमी (B) 1200 km किमी (C) 1500 km किमी (D) 1800 km किमी

15. The driver of an ambulance sees a bus 40 m ahead of him, after 20 seconds, the bus is 60 meter behind. If the speed of the ambulance is 30 km/h (किमी/घंटा), what is the speed of the bus? एक एंबुलेंस का चालक अपने आगे जा रही बस को 40 मीटर आगे देखता है, 20 सेकंड के बाद बस उसके 60 मीटर पीछे होती है। यदि एंबुलेंस की गति 30 किमी/घंटा हो तो बस की गति बताएं?

- (A) 10 km/h (B) 12 km/h (C) 15 km/h (D) 22 km/h

16. Two rabbits start running towards each other, one from A to B and another from B to A. They cross each other after one hour and the first rabbit reaches B, $5/6$ hour before the second rabbit reaches A. If the distance between A and B is 50 km, what is the speed of the slower rabbit? दो खरगोश एक दूसरे की ओर दौड़ रहे हैं। एक A से B की ओर और दूसरा B से A की ओर। वह दोनों एक दूसरे को एक घंटे पश्चात् पार करते हैं और पहला खरगोश B पर, दूसरे A पर पहुंचने से $5/6$ घंटा पहले पहुंचता है। यदि A और B के बीच की दूरी 50 किमी. है तो धीमे भागने वाले खरगोश की गति क्या होगी?

- (A) 20 km/h (B) 10 km/h (C) 15 km/h (D) 25 km/h