

Q.1 A retailer bought 250 kg of a cereal and sold it at a profit to the extent of what he paid for 160 kg. What is his profit percentage?

- Ans**
- 1. 32
 - 2. 64
 - 3. 36
 - 4. 18

Question ID : 65497817278
Chosen Option : 2

Q.2 The father of a girl is three years older than his mother. Six years ago, the average age of the girl and her parents was 32 years, and the age of the father was twice the present age of his daughter. What is the present age (in years) of the mother?

- Ans**
- 1. 48
 - 2. 42
 - 3. 45
 - 4. 49

Question ID : 65497817274
Chosen Option : 3

Q.3 The ratio of two numbers is 4 : 5. If one is subtracted from the first number, and two is added to the second number, then the ratio becomes 3 : 4. What will be the ratio when eight and four are, respectively, added to the first and the second number?

- Ans**
- 1. 2 : 3
 - 2. 8 : 9
 - 3. 6 : 7
 - 4. 1 : 5

Question ID : 65497817280
Chosen Option : 2

Q.4

The value of $120 + \left[\frac{2}{3} \times \left(1 - \frac{2}{5} \right) \times 5 \right] + \left[\frac{9}{8} \text{ of } \frac{4}{3} + \frac{3}{4} \text{ of } \frac{2}{3} \right]$ is:

- Ans**
- 1. 62
 - 2. 65
 - 3. 63
 - 4. 60

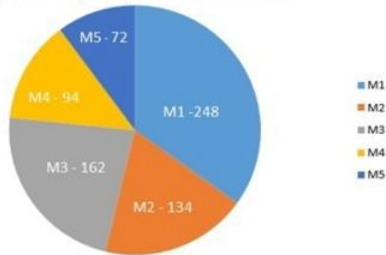
Question ID : 65497815774
Chosen Option : 3



Q.5 Study the pie chart and answer the question that follows.

The number of people applying for a passport from a city was monitored, and it was found that the numbers (in multiples of hundred) during the first five months of 2019 were as follows: January (M1) - 248, February (M2) - 134, March (M3) - 162, April (M4) - 94, May (M5) - 72. These have been represented through the given pie chart.

The number of people (in multiples of hundred) applying for a passport from a city during the first five months of 2019



The number of people in M5 is what percentage (correct up to two decimal places) of that of the two months M3 and M4 combined?

- Ans**
- 1. 20.12
 - 2. 24.07
 - 3. 28.13
 - 4. 21.24

Question ID : 65497817292
Chosen Option : 3

Q.6 The average of ten numbers is A. If c is subtracted from each number, except the tenth, and (c-1) is subtracted from the tenth number, then what will be the new average?

- Ans**
- 1. $A - c + 0.1$
 - 2. $A - c$
 - 3. $A - c + 1$
 - 4. $A - (0.1)c + 0.1$

Question ID : 65497817273
Chosen Option : 1

Q.7 The total surface area of a hemisphere is very nearly equal to that of an equilateral triangle. The side of the triangle is how many times (approximately) of the radius of the hemisphere?

- Ans**
- 1. $\left(\frac{8\pi}{\sqrt{3}}\right)^{0.5}$
 - 2. $\left(\frac{4\pi}{3}\right)^{0.5}$
 - 3. $(2\pi\sqrt{3})^{0.5}$
 - 4. $(4\pi\sqrt{3})^{0.5}$

Question ID : 65497817287
Chosen Option : 4



Q.8 Two cyclists start simultaneously from two points A and B, their destinations being B and A, respectively. After crossing each other, they precisely take 2 hours 33 minutes 36 seconds and 1 hour 26 minutes 24 seconds respectively to reach their destinations. What is the ratio of the speed of the first to that of the second cyclist?

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

Question ID : 65497817272
Chosen Option : 4

Q.9 The fourth proportional of 18, 27, 68 is:

- Ans**
- 1. 136
 - 2. 170
 - 3. 204
 - 4. 102

Question ID : 65497817279
Chosen Option : 4

Q.10 By what percentage is the percentage of the number of vowels in the word CONSONANT less than the percentage of consonants in it?

- Ans**
- 1. 33.33
 - 2. 200
 - 3. 66.67
 - 4. 50

Question ID : 65497817276
Chosen Option : 4

Q.11 Y takes five days more than X to finish a work. Working together, they finish the work in six days. In how many days can Y finish it working alone?

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

Question ID : 65497817269
Chosen Option : 3



Q.12 What is the range of the distribution of a variable which takes the ten values:

17, 18, 27, 11, 24, 21, 34, 21, 17, 32?

- Ans
- ✓ 1. 23
 - ✗ 2. 17
 - ✗ 3. 21
 - ✗ 4. 15

Question ID : 65497817284
Chosen Option : 3

Q.13 Study the pie chart and answer the question that follows.

The number of people applying for a passport from a city was monitored, and it was found that the numbers (in multiples of hundred) during the first five months of 2019 were as follows: January (M1) - 248, February (M2) - 134, March (M3) - 162, April (M4) - 94, May (M5) - 72. These have been represented through the given pie chart.

The number of people (in multiples of hundred) applying for a passport from a city during the first five months of 2019



What is the central angle (to the nearest degree) of the sector corresponding to M1?

- Ans
- ✗ 1. 104
 - ✗ 2. 117
 - ✗ 3. 132
 - ✓ 4. 126

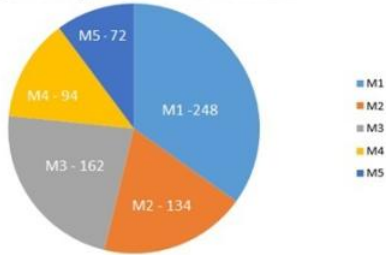
Question ID : 65497817291
Chosen Option : 4



Q.14 Study the pie chart and answer the question that follows.

The number of people applying for a passport from a city was monitored, and it was found that the numbers (in multiples of hundred) during the first five months of 2019 were as follows: January (M1) - 248, February (M2) - 134, March (M3) - 162, April (M4) - 94, May (M5) - 72. These have been represented through the given pie chart.

The number of people (in multiples of hundred) applying for a passport from a city during the first five months of 2019



If the number of people during M2 and M5 had, respectively, been 50% less and 50% more than what has been presented in the pie chart, then what would be the central angle (nearest to degrees) of the sector corresponding to M5?

- Ans**
- ✓ 1. 57
 - ✗ 2. 65
 - ✗ 3. 63
 - ✗ 4. 52

Question ID : 65497817293
Chosen Option : 1

Q.15 The speed of light is very nearly equal to 3×10^{17} nanometre per second. How much time (in seconds), approximately, does it take light to travel from the moon to the earth, the average distance between them being 384000 km?
(1 nanometre = 10^{-9} metre)

- Ans**
- ✗ 1. 38.4
 - ✗ 2. 12.8
 - ✗ 3. 3.84
 - ✓ 4. 1.28

Question ID : 65497817271
Chosen Option : 4

Q.16 When a rectangle is divided into three equal parts, each of them turns out to be a square of area 16 cm^2 . What is the perimeter (in cm) of the rectangle?

- Ans**
- ✗ 1. 64
 - ✗ 2. 16
 - ✓ 3. 32
 - ✗ 4. 48

Question ID : 65497817285
Chosen Option : 3

Q.17 Two inlet pipes can separately fill a cistern completely in 8 hours and 10 hours, respectively. They are operated for 2 hours, after which the second pipe is closed, and an outlet pipe which can drain out water from the full cistern in 20 hours is opened. How much time will it take to fill the cistern completely from the instant of opening the outlet pipe?

- Ans**
- 1. 7 hours
 - 2. 8 hours
 - 3. 7 hours 20 minutes
 - 4. 8 hours 40 minutes

Question ID : 65497817270
Chosen Option : 3

Q.18 Simplify the following expression $\frac{45 \div 3 \times \frac{2}{3} + 1\frac{1}{3} \text{ of } 6\frac{3}{8} - 4\frac{1}{8}}{\frac{1}{2} \left[\left(2\frac{1}{4} + 1\frac{1}{2} \right) \div \left(\frac{1}{15} + \frac{1}{3} - \frac{9}{10} \right) \right]}$.

- Ans**
- 1. $-\frac{4}{9}$
 - 2. $-\frac{23}{6}$
 - 3. $\frac{68}{5}$
 - 4. $-\frac{8}{9}$

Question ID : 65497817896
Chosen Option : 2

Q.19 The interest, compounded annually, on a sum of ₹3,240 after two years is ₹370. What is the rate of interest, correct up to two decimal places?

- Ans**
- 1. 5.26%
 - 2. 4.67%
 - 3. 5.56%
 - 4. 4.05%

Question ID : 65497817282
Chosen Option : 3

Q.20 The HCF of two 2-digit numbers is 19 and their sum is 152. What is their difference?

- Ans**
- 1. 19
 - 2. 38
 - 3. 57
 - 4. 76

Question ID : 65497817288
Chosen Option : 4



Q.21 A certain sum was invested on simple interest for a period of seven years. During the period of the sixth and the seventh years combined, the interest earned was ₹292. If the maturity amount is ₹3,942, then what is the rate percentage of the interest?

- Ans**
- 1. 5
 - 2. 2
 - 3. 6.25
 - 4. 2.5

Question ID : 65497817283
Chosen Option : 1

Q.22 An article, whose list price was ₹720, was subject to two successive discounts of 20% and 10%. What is the amount (in ₹) of discount that a customer would get while purchasing the article?

- Ans**
- 1. 198
 - 2. 190.8
 - 3. 201.6
 - 4. 216

Question ID : 65497817275
Chosen Option : 3

Q.23 If a shopkeeper purchases a certain number of items for a certain sum and sells a fraction of the said number for the same amount, then his profit is 300%. What is the fraction?

- Ans**
- 1. $\frac{1}{4}$
 - 2. $\frac{1}{3}$
 - 3. $\frac{1}{6}$
 - 4. $\frac{1}{2}$

Question ID : 65497817277
Chosen Option : 1

Q.24 A batswoman missed her century by four runs in an innings, in which the scoring shots in the form of sixes, fours, threes, twos and singles, were in the proportion 1 : 3 : 2 : 7 : 10. How many runs did she score in singles?

- Ans**
- 1. 20
 - 2. 16
 - 3. 10
 - 4. 12

Question ID : 65497817281
Chosen Option : 3



Q.25 The area (in cm^2) of a sector of a circle of radius 2 cm is $\frac{4\pi}{3}$. What is the central angle (in degrees) of the sector?

- Ans**
- 1. 60
 - 2. 75
 - 3. 36
 - 4. 72

Question ID : 65497817286
Chosen Option : 4