

Q.1 There were 1200 students in a hostel. If the number of students is increased by 300, then the expenses of the mess increase by ₹5,000 per day, while the average expenditure per head diminishes by ₹5. The original expenditure of the mess, per day, is:

- Ans**
- 1. ₹52,000
 - 2. ₹45,000
 - 3. ₹50,000
 - 4. ₹55,000

Question ID : 65497816062
Chosen Option : 3

Q.2 In what time will ₹8,000 become ₹12,167 at 15% per annum, compounded annually?

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

Question ID : 65497816070
Chosen Option : 1

Q.3 A sum of ₹16,000 is divided between Rahul and Vinod. Rahul invested his sum at 7.5% p.a. for 4 years at simple interest, and Vinod invested his sum at 12% p.a. for 4 years at simple interest. If the total interest received by Rahul and Vinod together is ₹6,024, then the sum invested by Rahul is:

- Ans**
- 1. ₹8,200
 - 2. ₹9,200
 - 3. ₹8,400
 - 4. ₹9,500

Question ID : 65497816071
Chosen Option : 2

Q.4 What number must be added to each of the numbers 7, 4 and 2 so that the resulting numbers may be in a continued proportion?

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

Question ID : 65497816067
Chosen Option : 1

Q.5 If a number of pens and pencils are bought in the ratio of 5 : 3, then Ashok has to pay ₹44. If the ratio is changed as 3 : 5, then he has to pay ₹36. Find the ratio of the price of one pen to one pencil.

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

Question ID : 65497816069
Chosen Option : 2

Q.6 The given pie chart shows the monthly savings and expenditure incurred by a family on various items. Study the chart and answer the question given below.



If the expenditure on housing is ₹1,680 more than that on clothing, then the yearly savings are:

- Ans**
- 1. ₹34,600
 - 2. ₹32,500
 - 3. ₹33,500
 - 4. ₹33,600

Question ID : 65497816081
Chosen Option : 4

Q.7 A cylindrical pillar is 75 cm in diameter and 5.6 m in height. The cost of painting the curved surface of the pillar at the rate of ₹15 per m² is:

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

- Ans**
- 1. ₹198
 - 2. ₹195
 - 3. ₹180
 - 4. ₹188

Question ID : 65497816073
Chosen Option : 1

Q.8 The ratio of the curved surface area and the volume of a closed cylinder is 4 : 7. If its total surface area is 253 cm^2 , then its height is:

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

- Ans**
- 1. 9 cm
 - 2. 10 cm
 - 3. 8 cm
 - 4. 5 cm

Question ID : 65497816075
Chosen Option : 3

Q.9 How many minutes does Vishwa take to cover a distance of 1300 m if he runs at a speed of 26 km/h?

- Ans**
- 1. 3 minutes
 - 2. 6 minutes
 - 3. 5 minutes
 - 4. 8 minutes

Question ID : 65497816059
Chosen Option : 1

Q.10 The given pie chart shows the monthly savings and expenditure incurred by a family on various items. Study the chart and answer the question given below.



The central angle of food and education together is:

- Ans**
- 1. 218°
 - 2. 206°
 - 3. 216°
 - 4. 116°

Question ID : 65497816079
Chosen Option : 3

Q.11 The HCF and LCM of two numbers are 8 and 224, respectively. If the ratio of the two numbers is 4 : 7, then the greater of the two numbers is:

- Ans**
- 1. 54
 - 2. 32
 - 3. 48
 - 4. 56

Question ID : 65497816076
Chosen Option : 4

Q.12 In the first 20 overs of a 50 overs game of cricket, the run rate was 5.2. What should be the run rate in the remaining 30 overs to reach the target of 344 runs?

- Ans**
- 1. 8
 - 2. 7
 - 3. 6
 - 4. 7.5

Question ID : 65497816061
Chosen Option : 1

Q.13 Renuka got $1\frac{1}{2}$ times as many marks in Mathematics as in English. Her total marks in Mathematics, English and Science are 190. If the ratio of the marks in Mathematics and Science is 2 : 3, find her Science marks.

- Ans**
- 1. 92
 - 2. 90
 - 3. 85
 - 4. 88

Question ID : 65497816068
Chosen Option : 2

Q.14 The profit earned after selling an article for ₹5,600 is the same as the loss incurred after selling the article for ₹2,400. The profit is:

- Ans**
- 1. 25%
 - 2. 32%
 - 3. 30%
 - 4. 40%

Question ID : 65497816066
Chosen Option : 4

Q.15 4 men and 5 women can earn ₹8,800 in 8 days. 7 men and 10 women can earn ₹10,250 in 5 days. In how many days will 8 men and 12 women earn ₹21,600?

- Ans**
- 1. 8 days
 - 2. 9 days
 - 3. 12 days
 - 4. 10 days

Question ID : 65497816058
Chosen Option : 2

Q.16 What is the simplified value of $1\frac{1}{16} - \left(\frac{2}{5} \text{ of } \frac{5}{32}\right) - \frac{1}{3} \div \frac{3}{7} \text{ of } \frac{49}{50} + 2 - (4 \times 19) \div 63$?

- Ans
- 1. $\frac{1}{8}$
 - 2. $\frac{1}{3}$
 - 3. $\frac{1}{16}$
 - 4. 1

Question ID : 65497817290
Chosen Option : 4

Q.17 The given pie chart shows the monthly savings and expenditure incurred by a family on various items. Study the chart and answer the question given below.



If the monthly savings are ₹5,000, then the total expenditure on education and clothing is:

- Ans
- 1. ₹16,500
 - 2. ₹14,500
 - 3. ₹15,500
 - 4. ₹14,000

Question ID : 65497816080
Chosen Option : 2

Q.18 The internal and external radii of a hollow hemispherical bowl are 20 cm and 23 cm, respectively. What is the total surface area (in cm^2) of the bowl?

- Ans
- 1. 2082π
 - 2. 1858π
 - 3. 1987π
 - 4. 2194π

Question ID : 65497815168
Chosen Option : 3

Q.19 The mean of the prime numbers between 20 and 45 is:

- Ans
- 1. 36
 - 2. 34
 - 3. 24
 - 4. 32

Question ID : 65497816072
Chosen Option : 3

Q.20 An article was sold at $\frac{4}{3}$ times of its cost price. The profit percentage is:

- Ans**
- 1. $33\frac{1}{4}\%$
 - 2. $33\frac{1}{3}\%$
 - 3. $33\frac{1}{5}\%$
 - 4. $32\frac{1}{3}\%$

Question ID : 65497816065
Chosen Option : 2

Q.21 The total surface area of a solid right circular cylinder is 1617 cm^2 . If the diameter of its base is 21 cm, then what is its volume (in cm^3)? (Take $\pi = \frac{22}{7}$)

- Ans**
- 1. 4851
 - 2. 5228
 - 3. 5324
 - 4. 3971

Question ID : 65497816074
Chosen Option : 1

Q.22 Dheeraj can cover a certain distance in 5 hours and 22 minutes by covering three-fourth of the distance at 5 km/h and the rest at 6 km/h. Find the total distance covered by him.

- Ans**
- 1. 28 km
 - 2. 30 km
 - 3. 25 km
 - 4. 26 km

Question ID : 65497816060
Chosen Option : 1

Q.23 A can do a work in 20 days and B can do it in 14 days. If they work together for 7 days, then the fraction of the work left is:

- Ans**
- 1. $\frac{3}{10}$
 - 2. $\frac{3}{20}$
 - 3. $\frac{7}{20}$
 - 4. $\frac{7}{10}$

Question ID : 65497816057
Chosen Option : 2

Q.24 सोनू कुमार अपने मासिक वेतन का 42% भोजन पर, 16% किराए पर, 10% मनोरंजन पर और 7% परिवहन पर खर्च करता है। लेकिन पारिवारिक कार्यक्रम के कारण ₹18,000 की जरूरत को पूरा करने के लिए, उसे एक साहूकार से ₹12,500 का ऋण लेना पड़ा। उसका मासिक वेतन ज्ञात कीजिए।

- Ans**
- 1. ₹22,000
 - 2. ₹24,000
 - 3. ₹20,000
 - 4. ₹25,000

Question ID : 65497816064
Chosen Option : 1

Q.25 Two successive discounts, the first being $14\frac{1}{2}\%$, were given on an article having a marked price of ₹12,500. Finally, it was sold for ₹9,405. How much was the second discount?

- Ans**
- 1. 10%
 - 2. 9%
 - 3. 8%
 - 4. 12%

Question ID : 65497816063
Chosen Option : 4