

**Q.1** What will be the compound interest on a sum of ₹22,500 at the rate of 16% per annum for 1 year, when interest is compounded half yearly?

- Ans**
- ✓ 1. ₹3,744
  - ✗ 2. ₹3,700
  - ✗ 3. ₹3,600
  - ✗ 4. ₹36,244

Question ID : 65497818090  
Chosen Option : 1

**Q.2** 12 men can complete a painting work in 8 days. However, 16 women can complete the same painting work in 12 days. 8 men started painting the house. After 6 days of painting, 2 men were replaced by 4 women. Now how many days will they take to complete the remaining painting?

- Ans**
- ✗ 1. 4
  - ✓ 2. 6
  - ✗ 3. 8
  - ✗ 4. 5

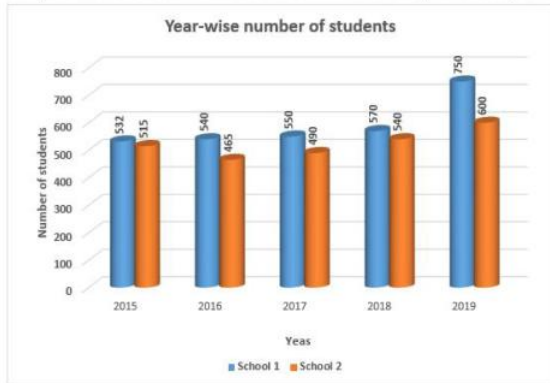
Question ID : 65497818078  
Chosen Option : --

**Q.3** An almirah was sold at a profit of 15%. If its cost had been 5% less and it had been sold for ₹1,470 less, then the profit would have been 10%. What is the cost price of the almirah?

- Ans**
- ✓ 1. ₹14,000
  - ✗ 2. ₹29,400
  - ✗ 3. ₹16,100
  - ✗ 4. ₹2,94,000

Question ID : 65497818086  
Chosen Option : 1

**Q.4** The year-wise student enrollment of two schools over a period of 5 years has been presented in the following bar graph.



In which year is the difference of enrollment in the two schools, the least?

- Ans**
- ✓ 1. 2015
  - ✗ 2. 2016
  - ✗ 3. 2018
  - ✗ 4. 2017

Question ID : 65497818099  
Chosen Option : 1

**Q.5** The simplified value of  $\frac{119 - [48 \div 6 - 7\{5 \times 12 \div 3 - (15 - \overline{3 - 8})\}]}{24 \div 3 - 9 \text{ of } 3 + (52 - \overline{8 - 4}) \div 6}$  is:

- Ans**
- ✓ 1.  $-\frac{111}{11}$
  - ✗ 2.  $-\frac{127}{27}$
  - ✗ 3.  $\frac{127}{43}$
  - ✗ 4.  $\frac{111}{11}$

Question ID : 65497818300  
Chosen Option : 1

**Q.6** A wire is in the form of a square of side 33 cm. If the wire is molded to form a circle, then what is the radius of the circle?

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

- Ans**
- ✓ 1. 21 cm
  - ✗ 2. 33 cm
  - ✗ 3. 16.5 cm
  - ✗ 4. 42 cm

Question ID : 65497818093  
Chosen Option : 1

**Q.7** From a wooden cubical block of side 10 cm, a sphere of radius 4.2 cm is carved out. How much wood is wasted in the process? (Use  $\pi = \frac{22}{7}$ )

- Ans**
- 1.  $476.2 \text{ cm}^3$
  - 2.  $689.536 \text{ cm}^3$
  - 3.  $310.464 \text{ cm}^3$
  - 4.  $523.8 \text{ cm}^3$

Question ID : 65497818095  
Chosen Option : 2

**Q.8** The product of two positive numbers is 1344 and their ratio is 7 : 12. The smaller of these numbers is:

- Ans**
- 1. 16
  - 2. 28
  - 3. 112
  - 4. 48

Question ID : 65497818087  
Chosen Option : 2

**Q.9** Two dealers offer an item at the same marked price ₹3,000. The first dealer allows successive discounts of 10% and 15%. The other dealer allows successive discounts of 20% and 5%. Find the difference in the selling price of the item under the two offers.

- Ans**
- 1. ₹15
  - 2. ₹20
  - 3. ₹10
  - 4. ₹25

Question ID : 65497818083  
Chosen Option : 1

**Q.10** A bus moves from station A towards station B, which is at a distance of 189 km. An hour later, a car, the ratio of whose speed with the bus is 3 : 2, starts from station A and moves towards station B. Find the speed of the bus (in km/h), if the car arrives at station B half an hour earlier than the bus.

- Ans**
- 1. 41
  - 2. 37.8
  - 3. 42
  - 4. 63

Question ID : 65497818080  
Chosen Option : --

**Q.11** Kavita purchased fabric worth ₹800 for a dress, and spent ₹350 on embroidery and stitching. If she sold the dress at a profit of 20%, then the selling price is:

- Ans**
- 1. ₹1,220
  - 2. ₹1,380
  - 3. ₹1,500
  - 4. ₹1,310

Question ID : 65497818085  
Chosen Option : 2

**Q.12** In a joint family of 16 persons, the eldest and the youngest members have an age difference of 82 years. If these two are left out of the counting, then the average age of the remaining 14 persons is 28. The average age of the entire family being 30, what is the age of the eldest person?

- Ans**
- 1. 85 years
  - 2. 88 years
  - 3. 76 years
  - 4. 60 years

Question ID : 65497818082  
Chosen Option : 1

**Q.13** If the mode of the following data is 11, then find the value of  $k$ .

11, 8, 9,  $(2k - 1)$ , 11, 12, 12, 18, 14, 16

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

Question ID : 65497818092  
Chosen Option : 2

**Q.14** The average of 9 numbers is 19. If the average of the first four numbers is 14, then the average of the last 5 numbers is:

- Ans**
- 1. 20
  - 2. 10
  - 3. 25.25
  - 4. 23

Question ID : 65497818081  
Chosen Option : 4

**Q.15** Two numbers differ by 10. If their LCM is 120 and HCF is 10, then the sum of the numbers is:

- Ans
- 1. 130
  - 2. 120
  - 3. 70
  - 4. 50

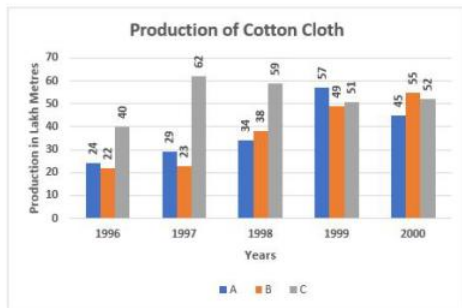
Question ID : 65497818096  
Chosen Option : 3

**Q.16** The value of  $\left(16\frac{2}{3} \div 10\right) - \left[\left(\frac{8}{3} \times \frac{5}{4}\right) \text{ of } \frac{2}{5} + \frac{16}{3} \times \frac{11}{8} - \left(\frac{1}{4} \div \frac{1}{28}\right)\right]$  is:

- Ans
- 1. 1
  - 2. 5
  - 3. 0
  - 4. 10

Question ID : 65497816178  
Chosen Option : 3

**Q.17** The following graph shows the production of cotton cloth (in lakh metres) by three companies A, B and C over the years.



In which year the production of company C is 81.94 % (correct to 2 decimal places) of the combined production of company A and company B?

- Ans
- 1. 1996
  - 2. 1998
  - 3. 2000
  - 4. 1999

Question ID : 65497818101  
Chosen Option : 2

**Q.18** A large container has a 50 litre mixture of juice and water in the ratio 3 : 2. To this, a 60 litre juice and water mixture is added, that has a juice to water ratio of 2 : 1. After this, 11 litres of the solution is replaced with pure juice. What is the ratio of water to juice in the final mixture?

- Ans**
- 1. 37 : 18
  - 2. 29 : 81
  - 3. 4 : 7
  - 4. 18 : 37

Question ID : 65497818089  
Chosen Option : 1

**Q.19** The cost of leveling a square field at the rate of ₹52/m<sup>2</sup> is ₹1,30,000. What will be the cost of fencing its boundary at the rate of ₹35/m?

- Ans**
- 1. ₹2,500
  - 2. ₹7,000
  - 3. ₹87,500
  - 4. ₹3,500

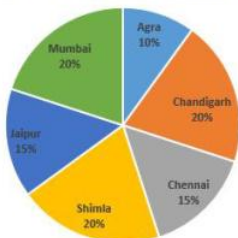
Question ID : 65497818094  
Chosen Option : 2

**Q.20** Seats in a college for a B. Sc. course for Physics, Chemistry and Biology, are in the proportion 7 : 5 : 8. There is a proposal to increase these seats by 50%, 40% and 25%, respectively. What will be the proportion of increased seats?

- Ans**
- 1. 12 : 9 : 33
  - 2. 21 : 14 : 20
  - 3. 57 : 45 : 33
  - 4. 7 : 4 : 4

Question ID : 65497818088  
Chosen Option : 2

**Q.21** A survey was conducted on 80 families to know about their most favourite place to visit out of 6 particular locations. The same has been shown in the following pie chart.



What is the central angle for the families who showed interest for visiting Jaipur?

- Ans**
- 1. 15°
  - 2. 25°
  - 3. 54°
  - 4. 60°

Question ID : 65497818100  
Chosen Option : 3

**Q.22** Ankit invests some money at 9% simple interest for 2 years, and the same sum for 4 years at 10% per annum. He earns ₹1,740 in all. The sum invested in each case is:

- Ans**
- 1. ₹4,350
  - 2. ₹3,000
  - 3. ₹6,000
  - 4. ₹4,500

Question ID : 65497818091  
Chosen Option : 2

**Q.23** A is 30% more efficient than B. If B finishes a work in 13 days, then in how many days will A finish the same work?

- Ans**
- 1. 11
  - 2. 9
  - 3. 10
  - 4. 12

Question ID : 65497818077  
Chosen Option : 3

**Q.24** A typist uses a paper of size 32 cm × 20 cm. He leaves a margin of 2 cm each on all the sides. If he leaves a margin of 1 cm only on all the sides, then what is the percentage of the increase in the area available for typing (correct to 2 decimal places)?

- Ans**
- 1. 20.54%
  - 2. 82.96%
  - 3. 17.04%
  - 4. 79.46%

Question ID : 65497818084  
Chosen Option : 1

**Q.25** Amit covers a certain distance on his bike at a speed of 40 km/h in 15 min. If he wants to cover the same distance in 12 min, then what should his speed be?

- Ans**
- 1. 60 km/h
  - 2. 50 km/h
  - 3. 72 km/h
  - 4. 32 km/h

Question ID : 65497818079  
Chosen Option : 2