

Section : Numerical Aptitude

Q.1 If the mean of the following data is 9, then find the value of k.

11, (k-2), 7, (k-1), 11, 16, 12, 15, (k-1), 13

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

Question ID : 65497817789
Chosen Option : 3

Q.2 A shopkeeper marks every item available in his shop at 20% higher than the actual cost price. He offers a discount of 10% on every item. If an item is sold for ₹5,400, find his profit percentage.

- Ans**
- 1. 4%
 - 2. 8%
 - 3. 6.6%
 - 4. 15%

Question ID : 65497817783
Chosen Option : 2

Q.3 Sudhir took a loan of ₹15,000 on simple interest for as many years as the rate of interest. If he paid ₹7,350 as interest at the end of the loan period, then what was the rate of interest per annum?

- Ans**
- 1. 15%
 - 2. 49%
 - 3. 10%
 - 4. 7%

Question ID : 65497817788
Chosen Option : 4

Q.4 Three numbers are in the ratio $\frac{4}{9} : \frac{2}{3} : \frac{3}{4}$. The difference between the greatest and the smallest numbers is 33. Find the greatest number.

- Ans**
- 1. 66
 - 2. 72
 - 3. 48
 - 4. 81

Question ID : 65497817785
Chosen Option : 4

Q.5 The average time taken by 7 athletes in a race is 2 minutes 10 seconds. If the winner completed the race in 1 minute 40 seconds, then the average time taken by the other athletes is:

- Ans**
- 1. 2 minutes 35 seconds
 - 2. 2 minutes 45 seconds
 - 3. 2 minutes 15 seconds
 - 4. 2 minutes 25 seconds

Question ID : 65497817778
Chosen Option : 3

Q.6 The simplified value of $6 - \left[\left\{ \left(\frac{20}{24} \div \frac{1}{2} \right) + \frac{48}{56} - \frac{6}{7} \right\} \text{ of } \frac{6}{10} - 7 \right]$ is:

- Ans
- 1. 12
 - 2. 13
 - 3. 0
 - 4. 9

Question ID : 65497818198
Chosen Option : 1

Q.7 A shopkeeper sold some bedsheets of one variety for ₹12,000 for 20% profit, and some bedsheets of another variety for ₹10,350 for 15% profit. What was his overall profit on the sale of these bedsheets?

- Ans
- 1. ₹3,750
 - 2. ₹3,350
 - 3. ₹3,552.50
 - 4. ₹3,952.50

Question ID : 65497817782
Chosen Option : 2

Q.8 A pool has 3 taps. The first tap takes 3 days, the second tap takes 2 days, and the third tap takes 18 hours, to fill the pool. All the three taps are opened together. After 8 hours, the second tap is closed. The total time to fill the pool completely will be:

- Ans
- 1. $\frac{128}{11}$ hours
 - 2. 12 hours
 - 3. $\frac{144}{13}$ hours
 - 4. 4 hours

Question ID : 65497817775
Chosen Option : 2

Q.9 A man cycling at a uniform speed of 10 km/h crosses a bridge in 90 seconds. The length of the bridge is:

- Ans
- 1. 150 m
 - 2. 25 m
 - 3. 250 m
 - 4. 15 m

Question ID : 65497817776
Chosen Option : 3

Q.10 Kamal and her sister together have ₹2,100. On taking ₹300 from her sister, Kamal will have the same amount as what her sister had earlier. Find the ratio of the initial amounts that Kamal and her sister had.

- Ans**
- ✓ 1. 3 : 4
 - ✗ 2. 1 : 1
 - ✗ 3. 4 : 3
 - ✗ 4. 5 : 9

Question ID : 65497817784
Chosen Option : 1

Q.11 The value of $3\frac{1}{9} \div \frac{4}{9}$ of $\left(7\frac{3}{10} + 3\frac{1}{5}\right) + \frac{4}{5} \div 2\frac{2}{5}$ is:

- Ans**
- ✗ 1. 5
 - ✓ 2. 1
 - ✗ 3. 2
 - ✗ 4. 10

Question ID : 65497815977
Chosen Option : 2

Q.12 Kamala has three cylindrical containers, each with radius 20 cm that she wants to fill with grain. If her bag of grain contains 100 kg of grain, and she fills all three containers to a height of 70 cm, how much grain will be left in the bag, if 1 kg grain occupies 3000 cm^3 space? (Use $\pi = \frac{22}{7}$)

- Ans**
- ✗ 1. 88 kg
 - ✗ 2. 50 kg
 - ✗ 3. 58 kg
 - ✓ 4. 12 kg

Question ID : 65497817792
Chosen Option : 4

Q.13 A transporter drives his truck for the first 4 hours of his journey at a speed of 90 km/h, and the remaining distance in 6 hours at a speed of 50 km/h. What is the average speed of the truck (in km/h)?

- Ans**
- ✗ 1. 64
 - ✗ 2. 70
 - ✗ 3. 60
 - ✓ 4. 66

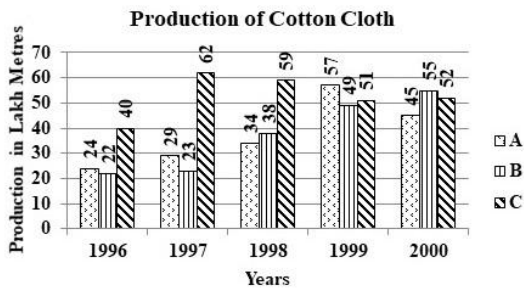
Question ID : 65497817779
Chosen Option : 4

Q.14 Two girls move in opposite directions, one from A to B and the other from B to A. The girl from A reaches the destination in 12 minutes. The girl from B stops on the way for 10 minutes and reaches her destination in 25 minutes. If A's speed is 5 km/h, then what is the speed of B?

- Ans**
- 1. 3 km/h
 - 2. $1\frac{5}{7}$ km/h
 - 3. 4 km/h
 - 4. 2.4 km/h

Question ID : 65497817777
Chosen Option : 3

Q.15 The following graph shows the production of cotton cloth (in lakh metres) by three companies A, B and C over the years.



What is the ratio of the production of Company C in the years 1996 and 1997 to the production of Company B in the years 1999 and 2000?

- Ans**
- 1. 3 : 11
 - 2. 51 : 52
 - 3. 11 : 3
 - 4. 52 : 51

Question ID : 65497817798
Chosen Option : 2

Q.16 A person invests ₹10,000 at the rate of 10% per annum for 2 years on simple interest. How much more interest will be earned if he is paid compound interest instead of simple interest, interest being compounded annually?

- Ans**
- 1. ₹100
 - 2. ₹4,100
 - 3. ₹2,100
 - 4. ₹1

Question ID : 65497817787
Chosen Option : 1

Q.17 A square park has area $4356 m^2$. Taking its one round is same as taking one round of another circular park. Find the area of the circular park. (Use $\pi = \frac{22}{7}$)

- Ans**
- 1. $11088 m^2$
 - 2. $5544 m^2$
 - 3. $22176 m^2$
 - 4. $1386 m^2$

Question ID : 65497817791
Chosen Option : 2

Q.18 Kulbhushan started a juice (syrup + water) counter. Initially, he had 140 litres of juice which had 40% water in it. He sold 30 litres of the juice. Then he added equal amounts of of syrup and water. Now the ratio of water to syrup became 3 : 4. What quantity of water was added?

- Ans**
- 1. 24 litres
 - 2. 28 litres
 - 3. 26 litres
 - 4. 22 litres

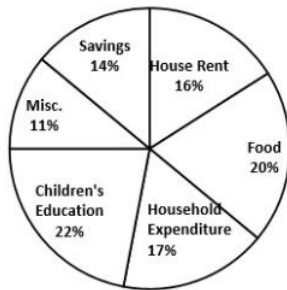
Question ID : 65497817786
Chosen Option : 2

Q.19 The radius of a spherical balloon increases from 6 cm to 10 cm when more air is pumped into it. The ratio in the surface area of the original balloon and the inflated balloon is:

- Ans**
- 1. 4 : 5
 - 2. 27 : 125
 - 3. 3 : 5
 - 4. 9 : 25

Question ID : 65497817790
Chosen Option : 4

Q.20 The Gupta family spends their monthly income on different heads as shown in the following pie chart.



What is the central angle of the combined section for House Rent and Savings?

- Ans**
- 1. 30°
 - 2. 100°
 - 3. 90°
 - 4. 108°

Question ID : 65497817797
Chosen Option : 4

Q.21 In a school, some students from section A were shifted to section B of Class X, and thereby, the number of students in section B increased by 12%. But at a later stage, all of them were shifted back to section A. By what percentage (correct up to two decimal places) did the number of students of section B decrease?

- Ans**
- 1. 12%
 - 2. 10.71%
 - 3. 11%
 - 4. 0%

Question ID : 65497817781
Chosen Option : 2

Q.22 For a 14-day camp, sufficient supplies are available for 300 people. 50 more people arrive on day 1 itself. For how many days will these supplies be sufficient for all these people?

- Ans**
- 1. 12
 - 2. 11
 - 3. 10
 - 4. 13

Question ID : 65497817774
Chosen Option : 1

Q.23 Two dealers offer an item at the same marked price, ₹2,000. Due to the festive season, the first dealer allows successive discounts of 25% and 15%, and the other dealer allows successive discounts of 10% and 30%. At what price is the item available in the better offer?

- Ans
- 1. ₹1,275
 - 2. ₹1,250
 - 3. ₹1,260
 - 4. ₹1,255

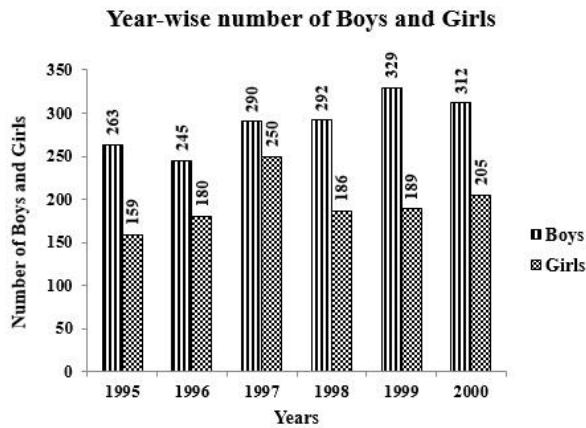
Question ID : 65497817780
Chosen Option : 3

Q.24 The sum of two numbers is 140. If their LCM is 240 and HCF is 20, then find the smaller number.

- Ans
- 1. 60
 - 2. 140
 - 3. 20
 - 4. 80

Question ID : 65497817793
Chosen Option : 1

Q.25 The record of the enrollment of boys and girls in a school over 6 years has been presented in the following bar graph.



In which year was the total enrollment the minimum?

- Ans
- 1. 2000
 - 2. 1996
 - 3. 1995
 - 4. 1998

Question ID : 65497817796
Chosen Option : 3