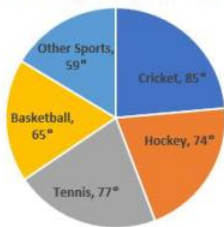


Section : Numerical Aptitude

Q.1 The pie chart given below represents the expenditure of a country on various sports during 2015. Study the pie chart and answer the question that follows.

Note: the figure is not drawn to scale.



What percentage of the total expenditure is spent on cricket and tennis taken together, during 2015?

- Ans**
- 1. 50%
 - 2. 23.6%
 - 3. 45%
 - 4. 21.4%

Question ID : **65497818503**
Chosen Option : **3**

Q.2 The average height of a group of 12 students is 170 cm. Four students of heights 154 cm, 157 cm, 165 cm and 172 cm left the group. What is the new average height (in cm) of the group?

- Ans**
- 1. 165
 - 2. 176
 - 3. 170
 - 4. 174

Question ID : 65497818486
Chosen Option : 4

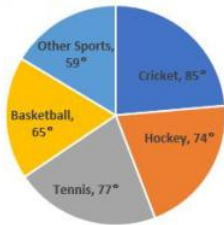
Q.3 The cost price of an article is 25% less than its selling price. What is the profit or loss percentage?

- Ans**
- 1. 33.33%, loss
 - 2. 66.67%, profit
 - 3. 33.33%, profit
 - 4. 66.67%, loss

Question ID : 65497818489
Chosen Option : 3

Q.4 The pie chart given below represents the expenditure of a country on various sports during 2015. Study the pie chart and answer the question that follows.

Note: the pie chart is not drawn to scale. The data does not represent the actual numbers. It has been created only for mathematical exercise.



In 2015, there was an increase of 50% and 25% of expenditure on Cricket and Other Sports, respectively, compared to the previous year. What was the ratio of the expenditure on Cricket to that on Other Sports in 2014?

- Ans**
- 1. 354 : 425
 - 2. 97 : 170
 - 3. 425 : 354
 - 4. 170 : 97

Question ID : 65497818505
Chosen Option : 3

Q.5 A and B travel the same distance at speeds of 8 km/h and 12 km/h, respectively. If B takes 30 minutes less than that taken by A, what is the distance (in km) travelled by each one of them?

- Ans**
- 1. 12
 - 2. 10
 - 3. 15
 - 4. 8

Question ID : 65497818483
Chosen Option : 1

Q.6 A and B can do a piece of work in 15 days, while B and C can do the same work in 12 days, and C and A in 10 days. They all work together for 5 days, and then B and C leave. How many days more will A take to finish the work?

- Ans**
- 1. 12
 - 2. 4
 - 3. 15
 - 4. 9

Question ID : 65497818482
Chosen Option : 4

Q.7 Two numbers are 32% and 48% more than a third number. What percentage (correct to two decimal places) is the second number of the first?

- Ans**
- 1. 89.19%
 - 2. 112.12%
 - 3. 102.19%
 - 4. 150.12%

Question ID : 65497818488
Chosen Option : 2

Q.8 An airplane took off from the starting point 45 minutes later than the scheduled time. The destination was 2100 km away from the starting point. To reach on time, the pilot had to increase the speed by 40% of its usual speed. What was the increased speed (in km/h)?

- Ans**
- 1. 1870
 - 2. 2520
 - 3. 2940
 - 4. 1120

Question ID : 65497818484
Chosen Option : 4

Q.9 The profit earned by a company is to be divided among three friends who invested their money in the company, in the proportion of 6 : 9 : 11. If the share of the person who invested the most is ₹2,310, then what is the sum of the money (in ₹) received by the other two friends?

- Ans**
- 1. 1,890
 - 2. 3,150
 - 3. 5,460
 - 4. 1,260

Question ID : 65497818491
Chosen Option : 2

Q.10 A tank is to be filled completely with water for which 8 pipes of the same kind are used. The tank gets filled in 1 hour and 40 minutes. If 10 pipes of the same kind, as mentioned above, are used, in how much time (in hours and minutes) will the tank be completely filled?

- Ans**
- 1. 1 hour 30 minutes
 - 2. 1 hour 20 minutes
 - 3. 1 hour 45 minutes
 - 4. 2 hours 5 minutes

Question ID : 65497818492
Chosen Option : 2

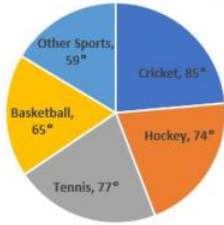
Q.11 The value of $15 \text{ of } 8 - 6 + [(27 - 3) \div 6 - 4]$ is:

- Ans**
- 1. 126
 - 2. 114
 - 3. 118
 - 4. 120

Question ID : 65497816380
Chosen Option : 2

Q.12 The pie chart given below represents the expenditure of a country on various sports during 2015. Study the pie chart and answer the question that follows.

Note: the figure is not drawn to scale.



If the total amount spent on sports during 2015 is ₹5,20,00,000, the amount (in ₹) spent on Hockey is how much more than that spent on Basketball?

- Ans**
- 1. 52,00,000
 - 2. 13,00,000
 - 3. 26,00,000
 - 4. 39,00,000

Question ID : 65497818504
Chosen Option : 2

Q.13 Find the mean (up to 2 decimal points) of the following numbers:

8.9, 6.5, 7.8, 12.3, 15.6, 14.4, 9.8

- Ans**
- 1. 8.96
 - 2. 7.85
 - 3. 9.83
 - 4. 10.76

Question ID : 65497818496
Chosen Option : 4

Q.14 The simplified value of $\left[\frac{5}{8} - \left\{ \frac{5}{8} - \left(\frac{5}{8} - \frac{3}{8} \right) \right\} \right]$ of $3.6 - 0.8 \div 10$ is:

- Ans**
- 1. 0.88
 - 2. -0.82
 - 3. -0.88
 - 4. 0.82

Question ID : 65497818502
Chosen Option : 4

Q.15 An open tank 15 m long, 12 m wide and 5 m deep is to be constructed with the help of a stainless-steel sheet which is 1.5 m in width. What length (in m) of the sheet will be required?

- Ans**
- 1. 350
 - 2. 450
 - 3. 250
 - 4. 300

Question ID : 65497818498
Chosen Option : 4

Q.16 P sold a mobile phone to Q at 25% profit. However, Q sold it to R at a loss of 10%. If R paid ₹3,240 for the mobile phone, what was the price (in ₹) paid by P for it?

- Ans**
- 1. 3,000
 - 2. 2,880
 - 3. 3,600
 - 4. 2,580

Question ID : 65497818490
Chosen Option : 2

Q.17 The total number of students in three classes of an Engineering Institute is 885. The strength of the students in the first two classes are in the ratio of 4 : 9. The ratio of the number of students in the second and the third classes is 6 : 11. How many students are there in the class that has the maximum number of students?

- Ans**
- 1. 594
 - 2. 495
 - 3. 954
 - 4. 459

Question ID : 65497818493
Chosen Option : 2

Q.18 A retailer gives 40% discount on a certain article, to his customer. In this transaction he earns a profit of 25% on that article. If the article costs ₹4,320 to the retailer, what is its marked price (in ₹)?

- Ans**
- 1. 8,000
 - 2. 2,592
 - 3. 9,000
 - 4. 6,000

Question ID : 65497818487
Chosen Option : 3

Q.19 A and B can do a piece of work in 12 days. A is one and a half times more efficient than B. In how many days does A complete the work independently?

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

Question ID : 65497818481
Chosen Option : 4

Q.20 In how many years will the interest on a certain sum of money at 5% p.a. be three-eighths of itself? (Express your answer in years and months)

- Ans**
- 1. 8 years 5 months
 - 2. 7 years 6 months
 - 3. 7 years 5 months
 - 4. 8 years 6 months

Question ID : 65497818495
Chosen Option : 2

Q.21 The LCM of $\frac{18}{5}$, $\frac{6}{5}$ and $\frac{18}{125}$ is:

- Ans**
- 1. 8.3
 - 2. 3.6
 - 3. 4.8
 - 4. 5.2

Question ID : 65497818500
Chosen Option : 2

Q.22 The average of 75 scores is 45. The average of the first 50 scores is 42 and that of the last 26 scores is 52. What is the 50th score?

- Ans**
- 1. 60
 - 2. 80
 - 3. 75
 - 4. 77

Question ID : 65497818485
Chosen Option : 4

Q.23 A wall 12 m long, 9 m high and 30 cm thick is to be constructed. How many bricks will be required if all bricks are of the same size of length 24 cm, breadth 18 cm and height 15 cm?

- Ans**
- ✓ 1. 5000
 - ✗ 2. 6500
 - ✗ 3. 6000
 - ✗ 4. 5500

Question ID : 65497818497
Chosen Option : 1

Q.24 A horse racecourse is in the form of an annular ring whose outer and inner circumferences are 748 m and 396 m, respectively. The width (in m) of the racecourse is: (Take $\pi = \frac{22}{7}$)

- Ans**
- ✗ 1. 176
 - ✗ 2. 88
 - ✓ 3. 56
 - ✗ 4. 28

Question ID : 65497818499
Chosen Option : 3

Q.25 The present value of an old car is ₹5,40,000. Its value depreciates at 25% per annum. What was its value (in ₹) 2 years ago?

- Ans**
- ✓ 1. 9,60,000
 - ✗ 2. 7,20,000
 - ✗ 3. 6,30,000
 - ✗ 4. 2,16,000

Question ID : 65497818494
Chosen Option : 1