Section : **Numerical Aptitude**

Q.1 A sum of ₹4,095 is divided between A, B, C and D such that the ratio of the shares of A and B is 1 : 3, that of B and C is 2 : 5 and that of C and D is 2 : 3. What is the difference (in ₹) between the shares of B and D?

Ans

✗ 1. 1,440

✓ 2. 1,485

✗ 3. 1,530

✗ 4. 1,845

Question ID : **65497814553**
Chosen Option : **2**

Q.2 A 248-m-long train travelling at 88 km/h takes 30 seconds to cross another train, x m long, travelling at 34 km/h in the same direction. What is the value of x ?

Ans

✗ 1. 192

✗ 2. 197

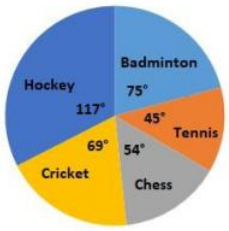
✓ 3. 202

✗ 4. 207

Question ID : **65497814560**
Chosen Option : **3**

Q.3 Study the given pie chart and answer the question that follows:

The given pie chart shows the distribution (degree wise) of students in a college playing different sports.



Total Number of Students = 600

The average number of students playing tennis and hockey is what per cent more than the number of students playing badminton?

Ans

✗ 1. 7.4

✓ 2. 8

✗ 3. 8.2

✗ 4. 10

Question ID : **65497814565**
Chosen Option : **2**

Q.4 When an article is sold for ₹640, there is a loss of 12%. To gain 21%, it should be sold for:

Ans

✗ 1. ₹774.40

✓ 2. ₹880.00

✗ 3. ₹770.00

✗ 4. ₹828.80

Question ID : **65497814551**
Chosen Option : **2**

Q.5 The sides of a triangular field are 96 m, 110 m and 146 m. The cost of levelling the field at ₹5.60 per m^2 is:

Ans

✗ 1. ₹30,564

✗ 2. ₹31,680

✗ 3. ₹28,224

✓ 4. ₹29,568

Question ID : **65497814561**
Chosen Option : **4**

Q.6 Let x be the least number which on being divided by 8, 12, 15, 24, 25 and 40 leaves a remainder of 7 in each case.

What will be the remainder when x is divided by 29?

Ans

✗ 1. 18

✓ 2. 27

✗ 3. 19

✗ 4. 20

Question ID : **65497814542**
Chosen Option : **2**

Q.7 A and B working together can complete 45% of a work in 18 days. A alone can complete the same work in 60 days. A and B work together for 16 days, and then A leaves. B alone will complete the remaining work in:

Ans

✗ 1. 80 days

✗ 2. 60 days

✓ 3. 72 days

✗ 4. 75 days

Question ID : **65497814557**
Chosen Option : **3**

Q.8 If $(x + 25)\%$ of 270 is 20% more than $x\%$ of 240, then 12% of $(x + 125)$ is what per cent more than 10% of x ?

Ans

✗ 1. 55

✗ 2. 45

✗ 3. 42

✓ 4. 60

Question ID : **65497814549**
Chosen Option : **4**

Q.9 The value of $\dfrac{\frac{8}{3} \div \frac{3}{5} \times \frac{7}{5}}{\frac{5}{3} \div \frac{5}{7} \times \frac{8}{9}} \div 6$ is:

Ans

✗ 1. $\frac{1}{6}$

✗ 2. $\frac{1}{4}$

✗ 3. $\frac{1}{3}$

✓ 4. $\frac{1}{2}$

Question ID : **65497816582**
Chosen Option : **4**

Q.10 A trader marks his goods in such a way that after allowing 16% discount on the marked price, he still gains 26%. If the cost price of the goods is ₹318, then what is the marked price of the goods?

Ans

✓ 1. ₹477

✗ 2. ₹456

✗ 3. ₹450

✗ 4. ₹427

Question ID : **65497814547**
Chosen Option : **1**

Q.11 X is 60% more efficient than Y, and Y alone can do a work in 80 days. Working together, X and Y will complete 52% of the same work in:

Ans

✔ 1. 16 days

✘ 2. 15 days

✘ 3. 18 days

✘ 4. 20 days

Question ID : **65497814558**
Chosen Option : **--**

Q.12 A car covers a distance of 450 km at a certain uniform speed (in km/h). The number of hours it takes for the journey is $\frac{1}{8}$ of the number representing the speed. The time taken (in hours) by the car to cover the distance is:

Ans

✘ 1. 9

✘ 2. 6

✘ 3. $6\frac{1}{4}$

✔ 4. $7\frac{1}{2}$

Question ID : **65497814559**
Chosen Option : **4**

Q.13 A certain sum is lent at 5% p.a. for 2 years, 9% p.a. for the next 3 years and 13% p.a. after 5 years. If the simple interest on the sum for a period of 10 years is ₹8,160, then the sum (in ₹) is:

Ans

✔ 1. 8,000

✘ 2. 9,000

✘ 3. 8,400

✘ 4. 9,600

Question ID : **65497814555**
Chosen Option : **1**

Q.14 The average score of A, B and C in a test is 78 and that of C, D and E is 52. The average score of E and F is 48 and that of E and C is 60. What is the average score of A, B, C, D, E and F?

Ans

✘ 1. 62

✘ 2. 67

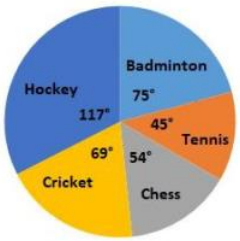
✘ 3. 63

✔ 4. 61

Question ID : **65497814546**
Chosen Option : **--**

Q.15 Study the given pie chart and answer the question that follows:

The given pie chart shows the distribution (degree wise) of students in a college playing different sports.



Total Number of Students = 600

The difference between the number of students playing chess and badminton is x. The value of x lies between:

Ans

✔ 1. 32 and 38

✘ 2. 26 and 32

✘ 3. 44 and 50

✘ 4. 38 and 44

Question ID : **65497814564**
Chosen Option : **1**

Q.16 The value of $39 - [30 - \{33 - (19 - 4 \div 3 \text{ of } 8 \times 6)\}]$ is:

Ans

✘ 1. 15

✘ 2. 18

✔ 3. 24

✘ 4. 9

Question ID : **65497814543**
Chosen Option : **3**

Q.17 The ratio of acid to water in solutions A and B is 2 : 7 and 4 : 5, respectively. these solutions are mixed in the ratio of 4 : 3. What is the ratio of acid to water in the resulting solution?

Ans

✘ 1. 25 : 21

✘ 2. 23 : 40

✘ 3. 21 : 40

✔ 4. 20 : 43

Question ID : **65497814554**
Chosen Option : **--**

Q.18 If $(11a^3 - 15b^3) : (10a^3 + 4b^3) = 5 : 7$, then $(9a + 5b) : (5a - 3b)$ is equal to:

Ans

✘ 1. 10 : 7

✘ 2. 13 : 5

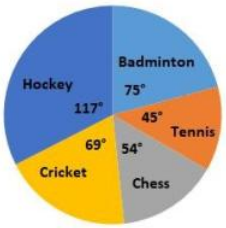
✔ 3. 15 : 4

✘ 4. 14 : 9

Question ID : **65497814552**
Chosen Option : **--**

Q.19 Study the given pie chart and answer the question that follows:

The given pie chart shows the distribution (degree wise) of students in a college playing different sports.



Total Number of Students = 600

If the ratio of the number of male students to that of female students playing hockey is 6 : 7 and 40% of the number of students playing tennis are females, then the total number of male students playing hockey and tennis is:

Ans

✔ 1. 135

✘ 2. 108

✘ 3. 120

✘ 4. 117

Question ID : **65497814566**
Chosen Option : **1**

Q.20 Anu sells articles A and B for ₹4,000 each, with no loss or profit in the entire transaction. If A is sold at a 25% profit, then B is sold at a loss of:

Ans

✘ 1. $15\frac{1}{2}\%$

✘ 2. 25%

✘ 3. 20%

✔ 4. $16\frac{2}{3}\%$

Question ID : **65497814550**
Chosen Option : **3**

Q.21 Three years ago, the average age of A, B and C was 29 years. If the average age of B and C, 5 years ago, was 23 years, then what is the present age (in years) of A?

Ans

✘ 1. 49

✔ 2. 40

✘ 3. 46

✘ 4. 50

Question ID : **65497814545**
Chosen Option : **2**

Q.22 The value of $\frac{5}{8} \div \left(\frac{8}{11} \times 2\frac{3}{4} \div \frac{4}{9}\right) + 5\frac{1}{3} \div \left(5\frac{1}{4} \div \frac{3}{8} \times \frac{3}{7}\right)$ of $1\frac{7}{9}$ is:

Ans
1. $\frac{1}{2}$
2. $\frac{1}{4}$
3. $\frac{23}{36}$
4. $\frac{5}{18}$

Question ID : **65497814544**
Chosen Option : **3**

Q.23 What is the mean of the median and range of the following data?

3, 8, 7, 12, 4, 3, 16, 20, 23, 10, 9, 15, 2, 7

Ans
1. 14.5
2. 14.75
3. 13.75
4. 19.5

Question ID : **65497814548**
Chosen Option : **2**

Q.24 What is the compound interest on a sum of ₹12,000 at 18% per annum for $1\frac{1}{3}$ years, if the interest is compounded 8-monthly?

Ans
1. ₹4,708.80
2. ₹2,980.20
3. ₹3,840.40
4. ₹3,052.80

Question ID : **65497814556**
Chosen Option : **--**

Q.25 The diameter of the base of a solid right circular cone is 22 cm and its height is 60 cm. The cost of polishing its curved surface at ₹1.40 per cm^2 is: (Take $\pi = \frac{22}{7}$)

Ans

1. ₹3,006
2. ₹2,904
3. ₹2,807.20
4. ₹2,952.40

Question ID : **65497814361**
Chosen Option : **--**