

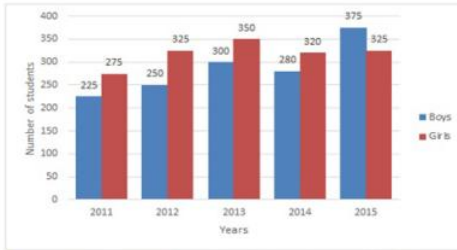
Section : Numerical Aptitude

Q.1 If the radius of a circle is increased by 23%, then by what percentage will its area increase?

- Ans**
- 1. 41.61%
 - 2. 51.29%
 - 3. 27.89%
 - 4. 32.85%

Question ID : 65497816881
Chosen Option : --

Q.2 Study the following graph that shows the number of boys and girls who appeared for the Class X examination in a school XYZ, in different years.



The average of the number of boys who appeared in 2011, 2013 and 2015 is what percentage less than the number of girls who appeared in 2014?

- Ans**
- 1. 8.15%
 - 2. 7.75%
 - 3. 6.25%
 - 4. 6.5%

Question ID : 65497816889
Chosen Option : 4

Q.3 A sum of money is distributed among P, Q, R and S in the ratio 3 : 4 : 5 : 6, respectively. If R gets ₹500 more than P, then the sum of all their shares (in ₹) is:

- Ans**
- 1. 6,000
 - 2. 4,500
 - 3. 7,500
 - 4. 5,000

Question ID : 65497816876
Chosen Option : 2



Q.4 A car travels a distance of x km at a speed of $5\frac{5}{9}$ m/sec and returns at 5 m/sec to the starting point. If the total time taken by the car is $7\frac{3}{5}$ hours, then the value of $(x+3)$ is:

- Ans
- 1. 78
 - 2. 80
 - 3. 75
 - 4. 72

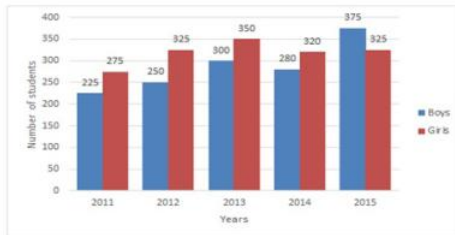
Question ID : 65497816868
Chosen Option : --

Q.5 The ratio of the speeds of two trains is 5 : 8. If the second train runs 600 km in 4 hours, then the speed of the first train (in km/h) is:

- Ans
- 1. 25.5
 - 2. 62.5
 - 3. 37.75
 - 4. 93.75

Question ID : 65497816867
Chosen Option : 4

Q.6 Study the following graph that shows the number of boys and girls who appeared for the Class X examination in a school XYZ, in different years.



The total number of girls who appeared in 2012, 2013, 2014 and 2015 is what percentage less than the total number of boys who appeared in all the five years? (correct to one decimal place)

- Ans
- 1. 6.6%
 - 2. 9.7%
 - 3. 10.1%
 - 4. 7.7%

Question ID : 65497816888
Chosen Option : 4

Q.7 The total number of students in class A and B is 72. The number of students in A is 40% more than that in B. The average marks of students in B are 50% more than that of students in A. If the average marks of all the students in A and B are 58, then what are the average marks of students in A?

- Ans
- 1. 58
 - 2. 72
 - 3. 50
 - 4. 48

Question ID : 65497816870



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Q.8 There are three positive numbers. If the average of any two of them is added to the third number, the resulting sums are 154, 148 and 132. The sum of the original three numbers is:

- Ans**
- 1. 222
 - 2. 231
 - 3. 246
 - 4. 217

Question ID : 65497816869
Chosen Option : --

Q.9 A sum of money doubled itself at a certain rate of compound interest in 10 years. In how many years will it become eight times?

- Ans**
- 1. 15
 - 2. 30
 - 3. 45
 - 4. 25

Question ID : 65497816878
Chosen Option : 3

Q.10 If the annual rate of simple interest increases from 8% to $12\frac{1}{2}\%$, a person's yearly income increased by ₹639. The principal amount (in ₹) is:

- Ans**
- 1. 14,200
 - 2. 8,200
 - 3. 12,500
 - 4. 11,250

Question ID : 65497816879
Chosen Option : --

Q.11 'A' can complete 40% of a work in 6 days, while 'B' can complete the work in $7\frac{1}{2}$ days. If they work together, then in how many days will the work be completed?

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

Question ID : 65497816866
Chosen Option : 4



Q.12 The marked price of an article is ₹5,450. If a person earns a profit of 15% after allowing a discount of 15%, then the cost price (in ₹) (correct to the nearest integer) of the article is:

- Ans
- 1. 4,498
 - 2. 4,189
 - 3. 4,289
 - 4. 4,028

Question ID : 65497816871
Chosen Option : 4

Q.13 When an article is sold for ₹388, there is a loss of 3%. What is the selling price (in ₹) of the article, if it is sold at a gain of 18%?

- Ans
- 1. 444
 - 2. 472
 - 3. 432
 - 4. 460

Question ID : 65497816873
Chosen Option : 2

Q.14 The sum of the cost prices of two bikes is ₹50,000. The first bike was sold at a profit of 20% and second bike at a loss of 20%. If the selling prices are the same, what is the cost price (in ₹) of the second bike?

- Ans
- 1. 25,000
 - 2. 20,000
 - 3. 30,000
 - 4. 27,500

Question ID : 65497816874
Chosen Option : 3

Q.15 The value of $0.2 \div 0.025 + 39 + 0.92 \div 0.2 \times 5 - 4.9 \div 0.07$ is:

- Ans
- 1. 0.5
 - 2. 0
 - 3. 1
 - 4. 0.15

Question ID : 65497815572
Chosen Option : 2



Q.16 If the HCF of two numbers is 6 and LCM of the same two numbers is 54, then the square root of the product of these numbers is:

- Ans 1. 24
 2. 18
 3. 12
 4. 16

Question ID : 65497816884
 Chosen Option : 2

Q.17 Simplify the following expression.

$$\frac{\frac{3}{7} + 1\frac{2}{3} \times 6 - \left(3\frac{1}{2} \div \frac{3}{5} \text{ of } \frac{7}{9}\right) \text{ of } \frac{2}{3}}{\frac{1}{7} \left(4 \div \frac{1}{5} \text{ of } 10\right) - 3}$$

- Ans 1. -2
 2. -38
 3. 2
 4. $-\frac{71}{57}$

Question ID : 65497817694
 Chosen Option : 1

Q.18 When x is subtracted from each of 21, 22, 60 and 64, the numbers so obtained in this order are in proportion. What is the mean proportional between (x+4) and $\left(\frac{x}{2} - 1\right)$?

- Ans 1. 8
 2. 5
 3. 6
 4. 12

Question ID : 65497816877
 Chosen Option : --

Q.19 The ratio of boys and girls in a school is 35 : 39. If the average of boys and girls in the school is 740, then the number of boys in the school is:

- Ans 1. 780
 2. 720
 3. 700
 4. 740

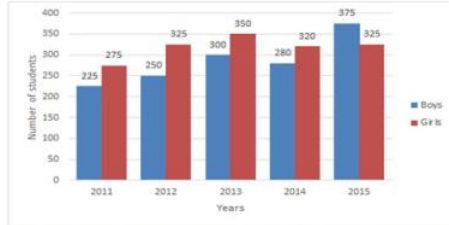
Question ID : 65497816875
 Chosen Option : 3

Q.20 'A' can complete a work in 15 days and 'B' can complete the same work in 20 days. Working together, in how many days will they complete 70% of the same work?

- Ans
- 1. 7
 - 2. 6
 - 3. 5
 - 4. 8

Question ID : 65497816865
Chosen Option : 2

Q.21 Study the following graph that shows the number of boys and girls who appeared for the Class X examination in a school XYZ, in different years.



What is the ratio of the total number of girls who appeared in 2012 and 2015 to the total number of boys who appeared for the class X examination in 2012 and 2013?

- Ans
- 1. 11 : 13
 - 2. 15 : 11
 - 3. 11 : 15
 - 4. 13 : 11

Question ID : 65497816887
Chosen Option : 4

Q.22 A raw data is in ascending order, i.e. 3, 4, 7, x , $x + 1$, 12, 13, 15. If the median of this data is 9.5, then x is equal to:

- Ans
- 1. 7.5
 - 2. 8.5
 - 3. 8
 - 4. 9

Question ID : 65497816880
Chosen Option : 4

Q.23 A tank is 25 m long, 12 m wide and 6 m deep. The cost (in ₹) of plastering its walls and bottom at ₹10 per m^2 is:

- Ans
- 1. 11,160
 - 2. 12,500
 - 3. 6,275
 - 4. 7,440

Question ID : 65497816883
Chosen Option : --

Q.24 In a constituency, 60% of the voters are males and the rest are females. 40% of the males are illiterate and 25% of the females are literate. By what percentage is the number of illiterate males more than that of literate females?

- Ans**
- 1. 120%
 - 2. 115%
 - 3. 140%
 - 4. 125%

Question ID : **65497816872**
Chosen Option : **3**

Q.25 If the length of a rectangle is increased by 40%, what would be the percentage decrease (correct to one place of decimal) in the width to maintain the same area?

- Ans**
- 1. 37.5%
 - 2. 33.5%
 - 3. 28.6%
 - 4. 42.5%

Question ID : **65497816882**
Chosen Option : **3**

