

Section : Numerical Aptitude

Q.1 8 women and 8 girls can finish a piece of work in 6 days, whereas 4 women and 10 girls can finish it in 8 days. In how many days will one girl finish it working alone?

- Ans**
- 1. 120
 - 2. 144
 - 3. 72
 - 4. 84

Question ID : 65497818380
Chosen Option : 2

Q.2 The length (in m, correct to one decimal place) of the longest pole that can be fitted in a room of dimensions $12\text{ m} \times 6\text{ m} \times 4\text{ m}$ is:

- Ans**
- 1. 7.2
 - 2. 14.0
 - 3. 13.4
 - 4. 12.6

Question ID : 65497818396
Chosen Option : 2

Q.3 A fort had provision for 400 men for 60 days. After 35 days, 100 more men came. For how many days would the provisions last, assuming all men consumed food equally?

- Ans**
- 1. 30
 - 2. 35
 - 3. 20
 - 4. 28

Question ID : 65497818391
Chosen Option : 3

Q.4 900 g द्रव्यमान वाले पुडिंग (Pudding) में आटा, चीनी और मक्खन, तीन सामग्रियां हैं। इसमें चीनी की तुलना में तीन गुना अधिक आटा है और मक्खन की तुलना में दो गुना अधिक चीनी है। व्यंजन (recipe) में कितना आटा (g में) है?

- Ans**
- 1. 600
 - 2. 550
 - 3. 750
 - 4. 500

Question ID : 65497818390
Chosen Option : 1

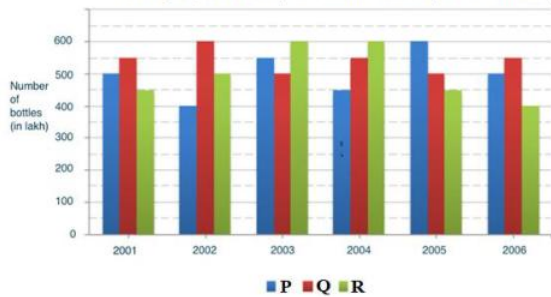
Q.5 The simple interest on a certain amount of money is 27% of the principal amount. The time for which the money is lent is one-third of the numerical value of the rate per cent per annum. What is the rate per cent?

- Ans**
- 1. 15%
 - 2. 12%
 - 3. 9%
 - 4. 6%

Question ID : 65497818394
Chosen Option : 3

Q.6 A company produced a new energy drink of three different flavours — P, Q and R — for athletes. The production of the three flavours over a period of six years from 2001 to 2006 has been expressed in the bar graph shown below. Study the graph and answer the question that follows.

Production of Three Different Flavours P, Q and R of energy drink by a Company over the years 2001 - 2006 (in lakh bottles)



What is the difference between the average production of bottles of flavour Q in 2004, 2005 and 2006 and the average production of flavour P in 2001, 2002 and 2003?

- Ans**
- 1. 33,40,000
 - 2. 50,00,000
 - 3. 40,00,000
 - 4. 33,30,000

Question ID : 65497818403
Chosen Option : 2

Q.7 The numbers 5, 7, 8, 10, 12, 13 and N are arranged in ascending order. If the mean of the numbers is equal to the median, the value of N is:

- Ans**
- 1. 16
 - 2. 25
 - 3. 15
 - 4. 14

Question ID : 65497818395
Chosen Option : 3

Q.8 If the internal dimensions of a rectangular closed wooden box are 30 cm, 18 cm and 23 cm, what space (in cm^3) will it occupy, if the wood used is 1 cm thick?

- Ans**
- 1. 12420
 - 2. 16000
 - 3. 14136
 - 4. 9408

Question ID : 65497818398
Chosen Option : 2

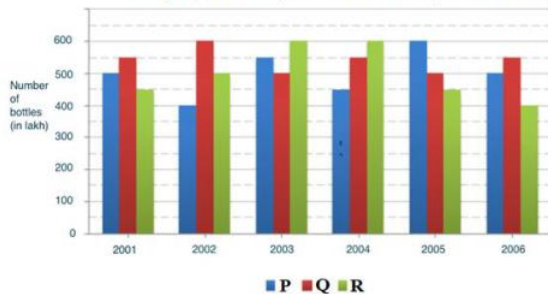
Q.9 Pipes P and Q can fill a completely empty tank in 24 minutes and in 36 minutes, respectively, when opened independently. Pipe R can empty the completely filled tank in 30 minutes. Initially all the three pipes P, Q and R, are opened simultaneously. After how many minutes should pipe Q be closed so that the tank is filled in 1 hour?

- Ans**
- 1. 18
 - 2. 15
 - 3. 24
 - 4. 30

Question ID : 65497818381
Chosen Option : 1

Q.10 A company produced a new energy drink of three different flavours — P, Q and R — for athletes. The production of the three flavours over a period of six years from 2001 to 2006 has been expressed in the bar graph shown below. Study the graph and answer the question that follows.

Production of Three Different Flavours P, Q and R of energy drink by a Company over the years 2001 - 2006 (in lakh bottles)



For which of the following years is the percentage of increase/decrease in production from the previous year the highest for flavour R?

- Ans**
- 1. 2005, decrease
 - 2. 2002, increase
 - 3. 2006, decrease
 - 4. 2003, increase

Question ID : 65497818404
Chosen Option : 1

Q.11 Which is the largest number that divides 827, 1149 and 1310 to leave the same remainder in each case?

- Ans
- 1. 161
 - 2. 116
 - 3. 232
 - 4. 322

Question ID : 65497818399

Chosen Option : 1

Q.12 What is the simplified value of

$$\left(8.5 - 2 \frac{1}{2}\right) \text{ of } 16.5 - \left[27.4 - \left\{10 \frac{1}{4} \text{ of } 2.5 - \left(1 \frac{1}{2} - 1 \frac{1}{5}\right)\right\}\right] ?$$

- Ans
- 1. 97.075
 - 2. 99.925
 - 3. 96.925
 - 4. 101.075

Question ID : 65497818501

Chosen Option : 3

Q.13 A man is driving to his workplace at five-eighths of his usual speed. He reaches his workplace 36 minutes late. What is his usual time (in hours) of travel?

- Ans
- 1. 1
 - 2. 2.5
 - 3. 2
 - 4. 1.5

Question ID : 65497818382

Chosen Option : 1

Q.14 A metal cube of edge 18 cm is melted to form three smaller cubes, which are unequal in dimensions. If the edges of two smaller cubes are 9 cm and 15 cm, what is the surface area in (cm²) of the third smaller cube?

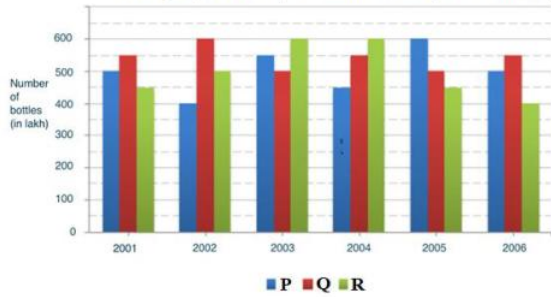
- Ans
- 1. 1944
 - 2. 864
 - 3. 1728
 - 4. 486

Question ID : 65497818397

Chosen Option : 2

Q.15 A company produced a new energy drink of three different flavours — P, Q and R — for athletes. The production of the three flavours over a period of six years from 2001 to 2006 has been expressed in the bar graph shown below. Study the graph and answer the question that follows.

Production of Three Different Flavours P, Q and R of energy drink by a Company over the years 2001 - 2006 (in lakh bottles)



What is the percentage (correct to one decimal place) of the total production of flavour P in 2003 and 2004 with respect to the total production of flavour R in 2001 and 2002?

- Ans**
- 1. 95.0%
 - 2. 115%
 - 3. 87.0%
 - 4. 105.3%

Question ID : 65497818402
Chosen Option : 4

Q.16 The average weight of 25 boxes in a boat is increased by 2 kg when one of the boxes weighing 68 kg is replaced by a new box. The weight (in kg) of the new box is:

- Ans**
- 1. 70
 - 2. 118
 - 3. 132
 - 4. 97

Question ID : 65497818384
Chosen Option : 2

Q.17 Four years ago, the average age of a group of five members was 38 years. One more man joins the group and the present average age of the group members becomes 44 years. What is the present age (in years) of the new member?

- Ans**
- 1. 74
 - 2. 52
 - 3. 30
 - 4. 54

Question ID : 65497818385
Chosen Option : 4

Q.18 A boat sails downstream from a point P to point Q, which is 24 km away from P, and then returns to P. If the actual speed of the boat (in still water) is 6 km/h, the entire trip from P to Q takes 3 hours less than that from Q to P. What should be the actual speed (in km/h) of the boat to sail from P to Q in 2 hours?

- Ans**
- 1. 12
 - 2. 15
 - 3. 10
 - 4. 22

Question ID : 65497818383
Chosen Option : 3

Q.19 A number was divided by 8, instead of being multiplied by 8. As a result of this, there was an error in the answer. What is the percentage difference (correct to two places of decimal) in the answer due to this miscalculation?

- Ans**
- 1. 48.67%
 - 2. 67.33%
 - 3. 98.44%
 - 4. 72.00%

Question ID : 65497818387
Chosen Option : 3

Q.20 A man sells 30 apples for the cost price of 40 apples. His profit percentage (correct to two places of decimal) is:

- Ans**
- 1. 33.33%
 - 2. 25.00%
 - 3. 30.67%
 - 4. 40.33%

Question ID : 65497818388
Chosen Option : 1

Q.21 What will be the compound interest (in ₹) on ₹10,000 for 2 years at 5% per annum, compounded annually?

- Ans**
- 1. 11,025
 - 2. 1,000
 - 3. 1,025
 - 4. 11,000

Question ID : 65497818393
Chosen Option : 3

Q.22 A man sells two items at ₹250 each. What is the value (in ₹) of the profit or loss incurred in this transaction, if he sells one at a profit of 25% and the other at a loss of 25%?

- Ans
- 1. Profit, 33.33
 - 2. Profit, 66.67
 - 3. Loss, 66.67
 - 4. Loss, 33.33

Question ID : 65497818389
Chosen Option : 4

Q.23

The value of $\frac{\frac{1}{6} + \left[4\frac{3}{4} - \left(3\frac{1}{6} - 2\frac{1}{3}\right)\right]}{\left(\frac{1}{5} \text{ of } \frac{1}{5} \div \frac{1}{5}\right) \div \left(\frac{1}{5} \div \frac{1}{5} \times \frac{1}{5}\right)}$ lies between:

- Ans
- 1. 4.2 and 4.3
 - 2. 4.0 and 4.1
 - 3. 4.3 and 4.4
 - 4. 4.6 and 4.8

Question ID : 65497816280
Chosen Option : 2

Q.24 A shopkeeper earns a profit of 40% on the cost price of an article after giving three consecutive discounts of 5%, 10% and 15% to a customer. What would have been the profit percentage, had the shopkeeper given discounts of 5% and 10% only?

- Ans
- 1. 59.71%
 - 2. 66.71%
 - 3. 64.71%
 - 4. 74.71%

Question ID : 65497818386
Chosen Option : 3

Q.25 A sum of ₹2,130 is to be divided into three parts. The second part is 60% of the first, and the ratio of the first to third part is 5 : 7. What are the parts (in ₹)?

- Ans
- 1. 426, 710, 994
 - 2. 710, 426, 994
 - 3. 994, 710, 426
 - 4. 710, 994, 426

Question ID : 65497818392
Chosen Option : 2