

Section : Numerical Aptitude

Q.1 The radius of a cylinder is reduced to 50% of its actual radius. If its volume remains the same as before, then its height becomes k times the original height. The value of k is:

- Ans**
- 1. 2
 - 2. 16
 - 3. 8
 - 4. 4

Question ID : 65497814664
Chosen Option : 4

Q.2 The value of $21 - [29 - \{27 - (43 - 15 \div 3 \times 4 \text{ of } 3 + 2)\}]$ is:

- Ans**
- 1. 39
 - 2. 34
 - 3. 31
 - 4. 27

Question ID : 65497815149
Chosen Option : 2

Q.3 The length and breadth of a rectangle are 35 cm and 12 cm, respectively. What will be the circumference of the circle that inscribes this rectangle? (Take $\pi = \frac{22}{7}$)

- Ans**
- 1. $115\frac{3}{7}$ cm
 - 2. $117\frac{1}{7}$ cm
 - 3. $114\frac{4}{7}$ cm
 - 4. $116\frac{2}{7}$ cm

Question ID : **65497815167**
Chosen Option : 4

Q.4 A man travelled from A to B at a speed of 10 m/sec, and returned to A from B at a speed of x km/h. If his average speed is 45 km/h, then what is the value of x ?

- Ans**
- 1. 54
 - 2. 50
 - 3. 56
 - 4. 60

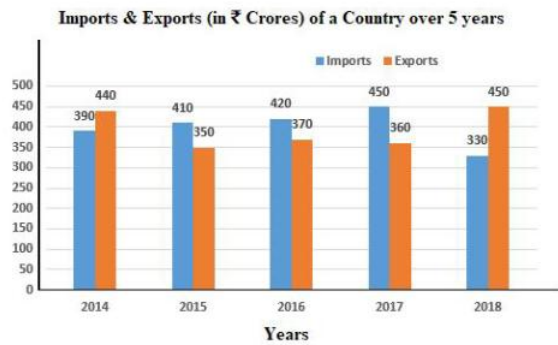
Question ID : **65497815165**
Chosen Option : 4

Q.5 A loss of 12% is incurred when an article is sold for ₹242. To get a profit of 15%, the article should be sold for (in ₹):

- Ans**
- 1. 324
 - 2. 316.25
 - 3. 326.50
 - 4. 319

Question ID : **65497815156**
Chosen Option : 2

Q.6 Study the given graph and answer the question that follows.



In which year are the exports of the country 87.5% of the average imports during 2016, 2017 and 2018?

- Ans**
- 1. 2016
 - 2. 2014
 - 3. 2015
 - 4. 2017

Question ID : **65497815170**
Chosen Option : **3**

Q.7 If a, b and c are the median, mode and range, respectively, of the data: 8, 5, 4, 3, 2, 7, 3, 10, 9, 17, 12, 3, 8, 4, then what is the value of $(3a - 2b + c)$?

- Ans**
- 1. 29
 - 2. 30
 - 3. 26
 - 4. 27

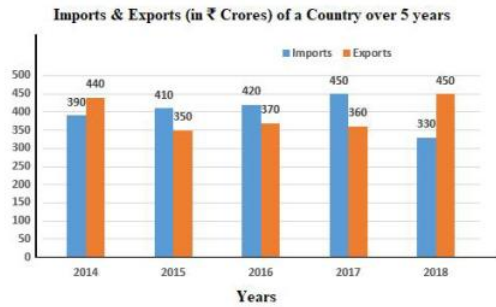
Question ID : **65497815154**
Chosen Option : **4**

Q.8 The simple interest on a certain sum for $4\frac{2}{3}$ years at $6\frac{3}{4}\%$ is ₹8,820. What will be the amount of the same sum after $7\frac{1}{2}$ years at $8\frac{1}{3}\%$ at simple interest?

- Ans**
- 1. ₹45,500
 - 2. ₹45,400
 - 3. ₹54,500
 - 4. ₹54,400

Question ID : **65497815161**
Chosen Option : **1**

Q.9 Study the given graph and answer the question that follows.



If a pie chart is drawn for the data related to the imports of the country over the 5 years, then what will be the central angle (in degrees) of the sector representing the imports in 2015?

- Ans**
- 1. 75.6
 - 2. 70.2
 - 3. 59.4
 - 4. 73.8

Question ID : 65497815171

Chosen Option : 4

Q.10 Seven years ago, the ratio of the ages of A and B was 2 : 3. Three years hence, the ratio of their ages will be 5 : 7. The sum of their present ages (in years) is:

- Ans**
- 1. 114
 - 2. 118
 - 3. 112
 - 4. 110

Question ID : 65497815158

Chosen Option : 1

Q.11 Amita buys 100 apples at the rate of 12 for ₹100.80 and 200 apples at the rate of 15 for ₹117. It was found that 10% of the apples were spoiled. She sold all the apples at 20 for ₹204. Her profit percentage in the entire transaction is:

- Ans**
- 1. 14.25%
 - 2. 15.5%
 - 3. 14.75%
 - 4. 15.25%

Question ID : 65497815157

Chosen Option : 3

Q.12 A sum invested at compound interest amounts to ₹13,824 in 2 years and to ₹16,588.80 in 3 years at a certain rate per cent per annum, interest being compounded yearly. What will be the amount of the same sum at the end of the 4th year (nearest to a rupee)?

- Ans**
- 1. ₹20,238
 - 2. ₹18,248
 - 3. ₹19,907
 - 4. ₹18,579

Question ID : 65497815162
Chosen Option : 3

Q.13 The ratio of the incomes of X and Y is 2 : 3, and the ratio of their expenditures is 4 : 5. If X and Y save ₹5,000 and ₹17,500, respectively, then what is the income (in ₹) of X?

- Ans**
- 1. 55,000
 - 2. 50,000
 - 3. 60,000
 - 4. 45,000

Question ID : 65497815160
Chosen Option : 4

Q.14 Pipes A and B can fill a tank in 18 minutes and 30 minutes, respectively. Pipe C, attached to the tank, can drain off 125 litres of water per minute. If all the pipes are opened together, the tank is filled in 45 minutes. The capacity of the tank, in litres, is:

- Ans**
- 1. 1500
 - 2. 1375
 - 3. 1875
 - 4. 2000

Question ID : 65497815164
Chosen Option : 3

Q.15 A sum of ₹16,200 was divided among A, B and C. Had A received ₹1,200 less, the ratio of the shares would have been 3 : 4 : 5. What was A's share, initially?

- Ans**
- 1. ₹4,950
 - 2. ₹6,250
 - 3. ₹3,750
 - 4. ₹6,050

Question ID : 65497815159
Chosen Option : --

Q.16 The value of $2\frac{1}{4} \div 1\frac{1}{2}$ of $\left[4\frac{1}{6} - \left(\frac{17}{21} + \frac{4}{3} \times 2\frac{1}{8} \div 1\frac{1}{6} \text{ of } \frac{3}{4} - \frac{5}{7}\right)\right]$ is:

- Ans
- 1. $3\frac{1}{3}$
 - 2. $1\frac{1}{4}$
 - 3. $\frac{5}{9}$
 - 4. $1\frac{4}{5}$

Question ID : 65497815150
Chosen Option : 4

Q.17 The average weight of students in a class is 58.5 kg. Four more students having weights 49 kg, 51 kg, 54 kg and 68 kg join the class. Now the average weight of all the students in the class is 58.3 kg. The number of students in the class, initially, was:

- Ans
- 1. 46
 - 2. 54
 - 3. 56
 - 4. 44

Question ID : 65497815151
Chosen Option : 3

Q.18 There are three positive integers. If the average of any two of them is added to the third, the resulting sums are 181, 172 and 160. The average of the given integers is:

- Ans
- 1. 78.5
 - 2. 85.5
 - 3. 86
 - 4. 84

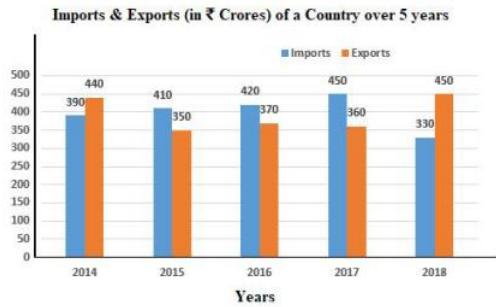
Question ID : 65497815152
Chosen Option : 2

Q.19 A man can row a boat 78 km downstream and 42 km upstream in 6 hours. The speed of the stream is 6 km/h. In how many hours can he row the boat a distance of 100 km in still water?

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

Question ID : 65497815166
Chosen Option : 1

Q.20 Study the given graph and answer the question that follows.



The total exports of the country in 2014, 2016 and 2018 are what percentage more than the total imports in 2015 and 2017 (correct to one decimal place)?

- Ans**
- 1. 44.2%
 - 2. 30.6%
 - 3. 32.4%
 - 4. 46.5%

Question ID : 65497815172
Chosen Option : 4

Q.21 The value of $\frac{1}{5} \div \frac{3}{10}$ of $\frac{4}{9} - \frac{4}{5} \times 1 \frac{1}{9} \div \frac{8}{15} + \frac{3}{4} + \frac{3}{4} \div \frac{1}{2}$ is:

- Ans**
- 1. $\frac{25}{12}$
 - 2. $\frac{11}{12}$
 - 3. $\frac{17}{12}$
 - 4. $\frac{7}{12}$

Question ID : 65497816885
Chosen Option : 1

Q.22 A shopkeeper bought an article at $\frac{4}{5}$ of its marked price and sold it at 16% more than the marked price. His gain percentage is:

- Ans**
- 1. 42%
 - 2. 48%
 - 3. 40%
 - 4. 45%

Question ID : 65497815153
Chosen Option : 4

Q.23 Last year, 300 students appeared for an examination from school A, and $33\frac{1}{3}\%$ of the students failed. In the same year, 480 students appeared for the examination from school B. 60% of the total students from schools A and B passed. What is the fail percentage of students from school B?

- Ans**
- 1. $43\frac{3}{4}\%$
 - 2. $40\frac{2}{3}\%$
 - 3. $42\frac{1}{3}\%$
 - 4. $44\frac{1}{6}\%$

Question ID : 65497815155
Chosen Option : 4

Q.24 When 3820, 4672 and 6163 are divided by the greatest number x , the remainder in each case is the same. What is the quotient when x divides 1035?

- Ans**
- 1. 6
 - 2. 8
 - 3. 4
 - 4. 3

Question ID : 65497815148
Chosen Option : 3

Q.25 A can do a certain work in 12 days and B can do it in 18 days. They worked together for 4 days. The remaining work was completed by C alone in 6 days. If they get ₹3,240 for the whole work, then the share of C in this amount will be:

- Ans**
- 1. ₹1,080
 - 2. ₹1,440
 - 3. ₹1,260
 - 4. ₹1,170

Question ID : 65497815163
Chosen Option : 3