

Section : Numerical Aptitude

Q.1 A man ordered 10 physics books and some chemistry books. The price of a chemistry book is twice the price of a Physics book. While preparing the bill, the clerk interchanged the number of physics and chemistry books by mistake, which decreased the bill by $12\frac{1}{2}\%$. The ratio of the number of physics books to the number of chemistry books in the original order is:

- Ans**
- 1. 3 : 5
 - 2. 3 : 4
 - 3. 4 : 5
 - 4. 2 : 3

Question ID : 65497815766
Chosen Option : --



Q.2 The average of seven consecutive even natural numbers is 36. The value of the first number is:

- Ans**
- 1. 26
 - 2. 30
 - 3. 32
 - 4. 28

Question ID : 65497815758

Chosen Option : 2

Q.3 An aeroplane covers a certain distance at a speed of 320 km/h in $5\frac{1}{2}$ hours. To cover the same distance in 4 hours, it must travel at a speed of:

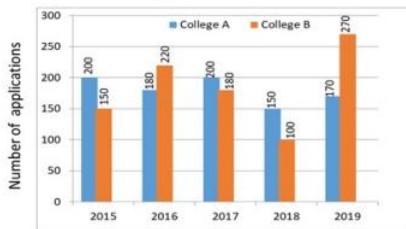
- Ans**
- 1. 460 km/h
 - 2. 440 km/h
 - 3. 420 km/h
 - 4. 450 km/h

Question ID : 65497815756

Chosen Option : 2

Q.4 Study the following bar graph and answer the question given below.

The given bar graph represents the total number of applications received for the B.Com course by two different colleges A and B in five different years.



The number of applications received by college A in 2016 is what percentage of the total number of applications received by college A from 2015 to 2019?

- Ans**
- 1. 20%
 - 2. 15%
 - 3. 25%
 - 4. 24%

Question ID : 65497815777

Chosen Option : 1

Q.5 The area of the four walls of a room is 1152 m^2 and its length is $\frac{5}{3}$ times its breadth. If the height of the room is 12 m, then the area of its floor is:

- Ans**
- 1. 580m^2
 - 2. 520m^2
 - 3. 540m^2
 - 4. 560m^2

Question ID : 65497815772

Chosen Option : 3

Q.6 A person has left a sum of Rs.1,45,600 to be divided among his two sons aged 15 years and 13 years now. Both of them invested their shares on simple interest at 10% per annum. If both of them gets equal amounts when they attain 18 years of age, then the original share received by younger son is:

- Ans**
- 1. ₹64,500
 - 2. ₹67,600
 - 3. ₹66,400
 - 4. ₹67,500

Question ID : 65497815768
Chosen Option : 2

Q.7 If ₹12,500 is invested at 12% p.a. on compound interest for one year and 4 months, compounded annually, then the amount received is:

- Ans**
- 1. ₹14,650
 - 2. ₹14,560
 - 3. ₹15,460
 - 4. ₹16,450

Question ID : 65497815767
Chosen Option : 2

Q.8 Three numbers are in the ratio $\frac{1}{4} : \frac{1}{5} : \frac{1}{3}$. The difference between the greatest and the smallest number is 800. The sum of the three numbers is:

- Ans**
- 1. 4500
 - 2. 5800
 - 3. 5700
 - 4. 4700

Question ID : 65497815764
Chosen Option : 4

Q.9 The ratio of the monthly income and expenditure of Dinesh is 17 : 14, and his monthly savings are ₹12,000. If his monthly income is increased by ₹10,000 and expenditure is decreased by ₹2,000, then the new ratio of his income and expenditure is:

- Ans**
- 1. 13 : 8
 - 2. 13 : 9
 - 3. 11 : 9
 - 4. 11 : 7

Question ID : 65497815765
Chosen Option : 2

Q.10 'A' alone can complete a piece of work for ₹4,800 in 16 days, but by engaging an assistant, the work is completed in 12 days. Find the share to be received by the assistant.

- Ans**
- 1. ₹1,500
 - 2. ₹1,300
 - 3. ₹1,400
 - 4. ₹1,200

Question ID : 65497815754
Chosen Option : 4

Q.11 A man sold a radio and a TV set together for ₹30,400, thereby making a profit of 25% on the radio and 10% on the TV set. By selling them together for ₹30,700, he would have made a 10% profit on the radio and 25% on the TV set. The cost price of the radio is:

- Ans**
- 1. ₹10,000
 - 2. ₹12,000
 - 3. ₹8,000
 - 4. ₹9,000

Question ID : 65497815763
Chosen Option : --

Q.12 55% of the candidates in an examination were boys. 60% of the boys and 75% of the girls passed, and 315 girls failed. The number of boys who failed were:

- Ans**
- 1. 626
 - 2. 632
 - 3. 616
 - 4. 646

Question ID : 65497815761
Chosen Option : 3

Q.13 The numbers 25, 34, 46, 48, $2x+1$, $4x+3$, 105, 110, 114, 122 are written in ascending order and their median is 77. The value of x is:

- Ans**
- 1. 22
 - 2. 24
 - 3. 28
 - 4. 25

Question ID : 65497815769
Chosen Option : 4

Q.14 Two workers A and B are engaged to do a piece of work. A working alone would take 14 hours more to complete the work than when A and B work together. B working alone would take $3\frac{1}{2}$ hours more than when A and B work together. The time required to finish the work together is:

- Ans**
- ✓ 1. 7 hours
 - ✗ 2. 5 hours
 - ✗ 3. 6 hours
 - ✗ 4. 8 hours

Question ID : 65497815755
Chosen Option : 1

Q.15 If the difference between the selling prices of an article when sold at 18% discount and at 10.5% discount is ₹192, then the marked price of the article is:

- Ans**
- ✗ 1. ₹2,580
 - ✗ 2. ₹2,480
 - ✓ 3. ₹2,560
 - ✗ 4. ₹2,500

Question ID : 65497815760
Chosen Option : 3

Q.16 The average of 40% of a number and 33% of the same number is 73. The average of $\frac{1}{5}$ th and $\frac{1}{4}$ th of that number is:

- Ans**
- ✗ 1. 40
 - ✓ 2. 45
 - ✗ 3. 42
 - ✗ 4. 50

Question ID : 65497815759
Chosen Option : 2

Q.17 The radius of the base of a cone and also that of a hemisphere each is 14 cm. Also, the volumes of these two solids are equal. The curved surface area of the cone is:

(Take $\pi = \frac{22}{7}$)

- Ans**
- ✗ 1. $614\sqrt{5}cm^2$
 - ✗ 2. $626\sqrt{5}cm^2$
 - ✓ 3. $616\sqrt{5}cm^2$
 - ✗ 4. $516\sqrt{5}cm^2$

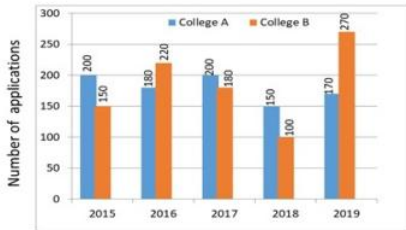
Question ID : 65497815771
Chosen Option : 3

Q.18 The slant height and the diameter of the base of a right circular cone are 34 cm and 32 cm, respectively. Its volume (in cm^3) is:

- Ans
- 1. 3200π
 - 2. 3840π
 - 3. 2560π
 - 4. 2880π

Question ID : 65497814967
Chosen Option : 3

Q.19 Study the following bar graph and answer the question given below.
The given bar graph represents the total number of applications received for the B.Com course by two different colleges A and B in five different years.



The difference between the average number of applications received by college A from 2015 to 2019 and the average number of applications received by college B from 2015 to 2019 is:

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

Question ID : 65497815778
Chosen Option : 4

Q.20 If the volume of a cube is $375\sqrt{3}\text{cm}^3$, then its diagonal is:

- Ans
- 1. 10 cm
 - 2. 15 cm
 - 3. 14 cm
 - 4. 12 cm

Question ID : 65497815770
Chosen Option : --

Q.21 The sum of two numbers is 60 and their product is 875. The HCF of the numbers is:

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

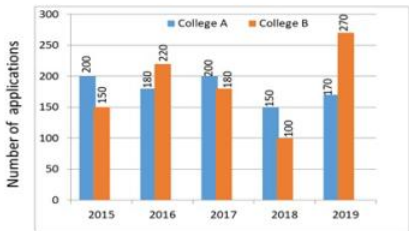
Question ID : 65497815773
Chosen Option : --

Q.22 Vaishnav left from place A at 11 a.m. for place B, and Suman left from place B at 2 p.m. for place A. The distance between them is 516 km. If Vaishnav's speed is 44 km/h and Suman's speed is 52 km/h, then at what time will they meet each other?

- Ans**
- 1. 7 p.m.
 - 2. 6 p.m.
 - 3. 5 p.m.
 - 4. 8 p.m.

Question ID : 65497815757
Chosen Option : 2

Q.23 Study the following bar graph and answer the question given below.
The given bar graph represents the total number of applications received for the B.Com course by two different colleges A and B, in five different years.



The ratio of the total number of applications received by college A in 2016 and 2017 together to the total number of applications received by college B in 2016 and 2017 together is:

- Ans**
- 1. 18 : 19
 - 2. 15 : 17
 - 3. 19 : 20
 - 4. 15 : 19

Question ID : 65497815776
Chosen Option : 3

Q.24 Prasad bought 12 TV sets at ₹18,000 each and sold all of them at a total price of ₹2,59,200. Find his profit or loss percentage.

- Ans**
- 1. Profit 15%
 - 2. Loss 15%
 - 3. Loss 20%
 - 4. Profit 20%

Question ID : 65497815762
Chosen Option : 4

Q.25 The value of $21 \times [(9 - 4) \div \{(8 \div 8 \text{ of } 4) + (4 \div 4 \text{ of } 2)\}]$ is:

- Ans 1. 140
 2. 80
 3. 100
 4. 20

Question ID : 65497817188
Chosen Option : 1