

Section : Numerical Aptitude

Q.1 If a certain sum at compound interest becomes 3 times in 4 years, then in how many years will it become 9 times, at the same rate of interest?

- Ans**
- ☐ 1. 6 years
 - ☐ 2. 9 years
 - ☐ 3. 10 years
 - ☒ 4. 8 years

Question ID : 65497815464
Chosen Option : 4

Q.2 A train covers a distance of 275 km in $2\frac{1}{2}$ hours with a uniform speed. The time taken to cover a distance of 440 km with the same speed is:

- Ans**
- ☐ 1. $4\frac{1}{2}$ hours
 - ☐ 2. 6 hours
 - ☐ 3. 5 hours
 - ☒ 4. 4 hours

Question ID : 65497815453
Chosen Option : 4



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Q.3 The cost prices of two articles are in the ratio 4 : 5. While selling these articles, the shopkeeper gains 10% on one article and 20% profit on the other article, and the difference in the selling price is ₹480. Find the total cost price of both the articles.

- Ans**
- ☒ 1. ₹3,000
 - ☒ 2. ₹2,700
 - ☐ 3. ₹2,500
 - ☐ 4. ₹2,800

Question ID : 65497815460
Chosen Option : 2

Q.4 A sum of ₹17,200 is lent out at simple interest in two parts for two years at 8% and 10% p.a., respectively. If the total interest received after two years is ₹3,008, then the money lent at 8% rate is:

- Ans**
- ☐ 1. ₹9,000
 - ☐ 2. ₹9,600
 - ☒ 3. ₹10,800
 - ☐ 4. ₹12,800

Question ID : 65497815465
Chosen Option : 3

Q.5 The radii of the circular ends of a frustum of a cone are 20 cm and 13 cm and its height is 12 cm. What is the capacity (in litres) of the frustum (correct to one decimal place)? (Take $\pi = \frac{22}{7}$)

- Ans**
- ☒ 1. 10.4
 - ☐ 2. 11.2
 - ☐ 3. 10.8
 - ☐ 4. 11.4

Question ID : 65497814865
Chosen Option : 1

Q.6 The perimeter of rectangular field is 386 m and the difference between its two adjacent sides is 95 m. The side of a square field, having the same area as that of the rectangle, is:

- Ans**
- ☐ 1. 64 m
 - ☒ 2. 84 m
 - ☐ 3. 74 m
 - ☐ 4. 82 m

Question ID : 65497815469
Chosen Option : 2



Q.7 If the mean of $x + 1$, $x + 12$, $2x + 3$ and $3x + 5$ is 21, then the value of x is:

- Ans
- ☒ 1. 12
 - ☒ 2. 10
 - ☒ 3. 8
 - ☒ 4. 9

Question ID : 65497815466
Chosen Option : 4

Q.8 14 men complete a work in 18 days. If 21 men are employed, then the time required to complete the same work will be:

- Ans
- ☒ 1. 14 days
 - ☒ 2. 10 days
 - ☒ 3. 15 days
 - ☒ 4. 12 days

Question ID : 65497815451
Chosen Option : 4

Q.9 The value of $\frac{2 - \left(\frac{5}{7} \text{ of } 21 + 5.25\right)}{\frac{3}{4} \text{ of } (15.8 - 3.4) + 5 \times 2.39}$ is:

- Ans
- ☒ 1. $\frac{11}{5}$
 - ☒ 2. -1
 - ☒ 3. $\frac{17}{5}$
 - ☒ 4. 1

Question ID : 65497816987
Chosen Option : 2

Q.10 Ramesh invested 30% more than Suresh. Suresh invested 40% less than Arun, who invested ₹8,000. The total amount invested by all of them together is:

- Ans
- ☒ 1. ₹19,020
 - ☒ 2. ₹18,020
 - ☒ 3. ₹19,040
 - ☒ 4. ₹19,080

Question ID : 65497815461
Chosen Option : 3



Q.11 A labourer was engaged for a certain number of days for ₹8,500, but due to his absence for some days, he was paid ₹6,050 only. Find the number of days that he was absent.

- Ans**
- ✓ 1. 49
 - ✗ 2. 45
 - ✗ 3. 44
 - ✗ 4. 42

Question ID : **65497815470**
Chosen Option : 1

Q.12 If the radius of a cylinder is decreased by 40% and the height is increased by 60% to form a new cylinder, then the volume will be decreased by:

- Ans**
- ✗ 1. 41.5%
 - ✗ 2. 32.4%
 - ✗ 3. 40.5%
 - ✓ 4. 42.4%

Question ID : **65497815468**
Chosen Option : 4

Q.13 Three numbers are in the ratio 2 : 3 : 4. The sum of their squares is 2349. Find the average of these three numbers.

- Ans**
- ✓ 1. 27
 - ✗ 2. 29
 - ✗ 3. 24
 - ✗ 4. 25

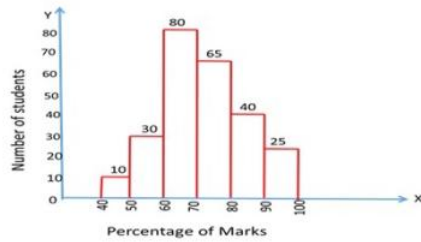
Question ID : **65497815456**
Chosen Option : 1



Q.14 Study the histogram and answer the question given below.

The given graph represents the percentage of marks scored by students in class X Board Examination in 2018 in a school.

Total number of students = 250



The difference between the percentage of students who scored less than 70% marks and the percentage of students who scored 80% and above is:

- Ans
- ☐ 1. 25%
 - ☐ 2. 18%
 - ☐ 3. 24%
 - ☒ 4. 22%

Question ID : 65497815475
Chosen Option : 4

Q.15 70 males and 100 females are working in a firm. During one mass recruitment drive, an equal number of males and females are recruited and their ratio becomes 3 : 4. The total number of people working in the firm after recruitment is:

- Ans
- ☐ 1. 240
 - ☐ 2. 200
 - ☒ 3. 210
 - ☐ 4. 220

Question ID : 65497815462
Chosen Option : 3

Q.16 A reduction of 15% in the price of sugar enables Aruna Rai to buy 6 kg more for ₹272. The reduced price of sugar per kg is:

- Ans
- ☐ 1. ₹7.80
 - ☐ 2. ₹6
 - ☒ 3. ₹6.80
 - ☐ 4. ₹6.50

Question ID : 65497815457
Chosen Option : 3



Q.17 The speed of A is 20 km/h more than the speed of B. The time that A takes to travel a distance of 300 km is 2 hours less than the time that B takes to travel a distance of 240 km. What is the speed (in km/h) of A?

- Ans
- ☐ 1. 30
 - ☐ 2. 40
 - ☐ 3. 45
 - ☒ 4. 50

Question ID : 65497815454
Chosen Option : 4

Q.18 A is 120% of B and B is 65% of C. If the sum of A, B and C is $121\frac{1}{2}$, then the value of $2C - 4B + A$ is:

- Ans
- ☐ 1. 15
 - ☒ 2. 9
 - ☐ 3. 10
 - ☐ 4. 12

Question ID : 65497815458
Chosen Option : 2

Q.19 Between two consecutive years, my income is in the ratio 2 : 5 and expenses are in the ratio 4 : 7. If my income in the second year is ₹75,000 and my expenses in the first year are ₹20,000, then my total savings in the two years together are:

- Ans
- ☐ 1. ₹55,000
 - ☐ 2. ₹60,000
 - ☒ 3. ₹50,000
 - ☐ 4. ₹40,000

Question ID : 65497815463
Chosen Option : 3

Q.20 The average of eight consecutive numbers is 10.5. The largest number is:

- Ans
- ☒ 1. 14
 - ☐ 2. 15
 - ☐ 3. 18
 - ☐ 4. 16

Question ID : 65497815455
Chosen Option : 1



Q.21 A shopkeeper sold 25 articles in such a way that he gets a profit which is equal to the selling price of 5 articles. Find his profit percent?

- Ans**
- ☐ 1. 20%
 - ☐ 2. 30%
 - ☒ 3. 25%
 - ☐ 4. 18%

Question ID : **65497815459**
Chosen Option : **3**

Q.22 If the width of the path around a square field is 4.5 m and the area of the path is 252 m^2 , then the length of the side of the field is:

- Ans**
- ☒ 1. 9.5 m
 - ☐ 2. 9 m
 - ☐ 3. 8 m
 - ☐ 4. 8.5 m

Question ID : **65497815467**
Chosen Option : **1**

Q.23 A can do a piece of work in 60 days. He works at it for 15 days, and then B alone finishes the remaining work in 30 days. In how many days can A and B working together finish the same work?

- Ans**
- ☐ 1. 22 days
 - ☐ 2. 25 days
 - ☐ 3. 20 days
 - ☒ 4. 24 days

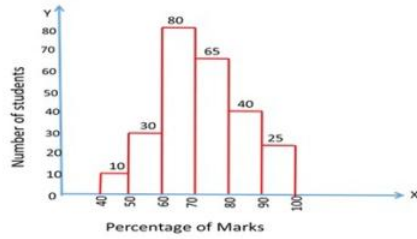
Question ID : **65497815452**
Chosen Option : **4**



Q.24 Study the histogram and answer the question given below.

The given graph represents the percentage of marks scored by students in class X Board Examination in 2018 in a school.

Total number of students = 250



The ratio of the number of students who scored marks less than 60% to the number of students who scored marks 80% and above is:

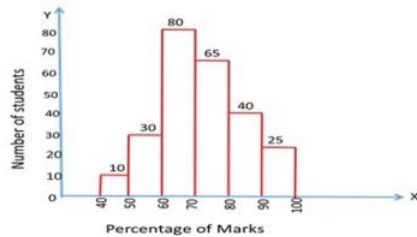
- Ans
- ☒ 1. 7 : 11
 - ☒ 2. 8 : 13
 - ☒ 3. 7 : 13
 - ☒ 4. 8 : 15

Question ID : 65497815473
Chosen Option : 2

Q.25 Study the histogram and answer the question given below.

The given graph represents the percentage of marks scored by students in class X Board Examination in 2018 in a school.

Total number of students = 250



The number of students who scored less than 60% marks is approximately what percentage less than the number of students who scored 70% and above?

- Ans
- ☒ 1. 68.35%
 - ☒ 2. 68%
 - ☒ 3. 69.23%
 - ☒ 4. 67.23%

Question ID : 65497815474
Chosen Option : 3



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