Section : **Numerical Aptitude**

Q.1 Two numbers A and B are, respectively, 20% and 56% more than a third number C. The ratio of the numbers A to B is:

Ans ✔ 1. 10 : 13

✘ 2. 10 : 17

✘ 3. 11 : 13

✘ 4. 7 : 11

Question ID : **65497815562**
Chosen Option : **1**

Q.2 If the diameter of the base of a cone is 24 cm and its curved surface area is $1395\frac{3}{7}$ cm^2, then its height is:

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

Ans
- ✓ 1. 35 cm
- ✗ 2. 32 cm
- ✗ 3. 30 cm
- ✗ 4. 36 cm

Question ID : **65497815569**
Chosen Option : **1**

Q.3 Twelve years ago, the ratio of the ages of Anil and Bishu was 5 : 12. Eight years from now, the ratio of their ages will be 10 : 17. What is the ratio of the present ages of Anil and Bishu?

Ans
- ✗ 1. 9 : 16
- ✓ 2. 8 : 15
- ✗ 3. 5 : 8
- ✗ 4. 7 : 13

Question ID : **65497815564**
Chosen Option : **2**

Q.4 A's monthly salary is 20% more than B's monthly salary. C's monthly salary is ₹25,000 more than B's monthly salary. Their total monthly salary is ₹2,65,000. The salary of B is what percentage of that of C?

Ans
- ✓ 1. 75%
- ✗ 2. 55%
- ✗ 3. 60%
- ✗ 4. 70%

Question ID : **65497815559**
Chosen Option : **--**

Q.5 What is the compound interest on a sum of ₹12,600 for $1\frac{1}{2}$ years at 20% p.a., if the interest is compounded half-yearly? (Nearest to a ₹)

Ans
- ✗ 1. ₹4,251
- ✓ 2. ₹4,171
- ✗ 3. ₹4,169
- ✗ 4. ₹4,269

Question ID : **65497815565**
Chosen Option : **--**

Q.6 Raghav lent ₹7,500 to Gopal for three years and ₹5,000 to Sachin for four years on simple interest at the same rate of interest, and received ₹3,570 in all from both as interest. The interest paid by Sachin is:

Ans

✗ 1. ₹1,580

✗ 2. ₹1,500

✔ 3. ₹1,680

✗ 4. ₹1,600
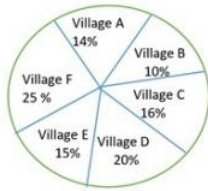
Question ID : **65497815566**

Chosen Option : --

Q.7 Varun can do a work in 28 days. In how many days can the work be completed by Sarvesh, if the efficiency of Sarvesh is 40% more than that of Varun?

Ans

✗ 1. 18 days

✗ 2. 16 days

✔ 3. 20 days

✗ 4. 15 days

Question ID : **65497815552**

Chosen Option : **3**

Q.8 Study the following pie chart and table and answer the question given below.

The given chart represents the percentage distribution of the population of six villages A, B, C, D, E and F in 2016.

Village	Percentage of population below the poverty line
A	30%
B	45%
C	55%
D	60%
E	58%
F	40%

If the population below the poverty line in village D is 12408, then the population below the poverty line in village F is:

Ans

✔ 1. 10340

✗ 2. 10240

✗ 3. 10440

✗ 4. 10300

Question ID : **65497815576**

Chosen Option : --

Q.9 A can do a piece of work in 12 days for 6 hours per day, and B can do it in 8 days for 7 hours per day. How long will they take to do the work, working together, for 9 hours a day?

Ans
✗ 1. 4 days

✗ 2. $\frac{5}{2}$ days

✗ 3. $\frac{9}{2}$ days

✔ 4. $\frac{7}{2}$ days

Question ID : **65497815553**
Chosen Option : **4**

Q.10 The base of a triangle is 8.5 cm and height is 14 cm. The height of another triangle, having base 14 cm and double the area of the first triangle, is:

Ans
✔ 1. 17 cm

✗ 2. 15 cm

✗ 3. 16 cm

✗ 4. 14 cm

Question ID : **65497815568**
Chosen Option : **1**

Q.11 If the height of a cylinder is increased by 30%, and the radius of its base is decreased by 15%, then by what percentage will its curved surface area change?

Ans
✗ 1. 10%

✗ 2. 12%

✗ 3. 8%

✔ 4. 10.5%

Question ID : **65497815570**
Chosen Option : **4**

Q.12 The sales for 5 days are given as: ₹5,000, ₹6,000, ₹8,000, ₹7,000 and ₹9,000. What must the sales be on the 6th day so that the average becomes ₹8,500?
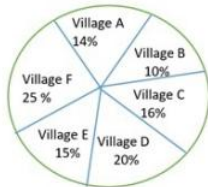
Ans
✔ 1. ₹16,000

✗ 2. ₹12,000

✗ 3. ₹15,000

✗ 4. ₹10,000

Question ID : **65497815556**
Chosen Option : **1**

Q.13 A person reaches his destination 32 minutes late if his speed is 6 km/h, and he reaches 18 minutes before time if his speed is 7 km/h. Find the distance of his destination from his starting point.

Ans
  ✗ 1. 28 km

  ✗ 2. 30 km

  ✗ 3. 32 km

  ✔ 4. 35 km

Question ID : **65497815554**
Chosen Option : **4**

Q.14 Study the following pie chart and table and answer the question given below.

The given chart represents the percentage distribution of the population of six villages A, B, C, D, E and F in 2016.

Village	Percentage of population below the poverty line
A	30%
B	45%
C	55%
D	60%
E	58%
F	40%

The difference in the central angles of villages B and E is:

Ans
  ✗ 1. 22°

  ✗ 2. 25°

  ✔ 3. 18°

  ✗ 4. 15°

Question ID : **65497815574**
Chosen Option : **--**

Q.15 By selling an article for ₹1,500, double the profit is obtained than the profit that would have been obtained by selling it for ₹1,350. Find the cost price of the article.

Ans
  ✗ 1. ₹1,100

  ✔ 2. ₹1,200

  ✗ 3. ₹1,400

  ✗ 4. ₹1,000

Question ID : **65497815560**
Chosen Option : **2**

Q.16 The value of $4 \times 2 \div 3$ of $12 - 3 \div 2 \times (2 - 3) \times 2 + 3 \div 2$ of 3 is:

Ans

✗ 1. $\dfrac{59}{18}$

✗ 2. $\dfrac{13}{18}$

✓ 3. $\dfrac{67}{18}$

✗ 4. $\dfrac{23}{6}$

Question ID : **65497817087**
Chosen Option : **3**

Q.17 Anil Kumar sold an article to Rajat for ₹15,000 by losing 25%. Rajat sells it to David at a price that would have given Anil Kumar a profit of 5%. The profit percentage earned by Rajat is:

Ans

✗ 1. 25%

✓ 2. 40%

✗ 3. 42%

✗ 4. 30%

Question ID : **65497815561**
Chosen Option : **--**

Q.18 A man travelled a distance of 47 km in 6 hours. He travelled partly on foot at the rate of $6\frac{1}{2}$ km/h, and partly on bicycle at the rate of $8\frac{1}{2}$ km/h. The distance travelled on foot is:

Ans

✓ 1. 13 km

✗ 2. 15 km

✗ 3. 12 km

✗ 4. 16 km

Question ID : **65497815555**
Chosen Option : **--**

Q.19 The sum of five numbers A, B, C, D and E is 37.5. The average of A and B is 6, and the average of D and E is 9. The average of A, B and C is:

Ans

✗ 1. 7.5

✗ 2. 6

✓ 3. 6.5

✗ 4. 5.5

Question ID : **65497815557**
Chosen Option : **3**

Q.20 The least number of square tiles required to pave the ceiling of a room, 12 m 95 cm long and 3 m 85 cm broad, is:

Ans ✗ 1. 14225

✓ 2. 14245

✗ 3. 14000

✗ 4. 12425

Question ID : **65497815571**
Chosen Option : --

Q.21 An article is listed at ₹15,000 and the discount offered is 12%. What additional discount must be given to bring the net selling price to ₹12,078?

Ans ✗ 1. 7.5%

✓ 2. 8.5%

✗ 3. 9%

✗ 4. 8%

Question ID : **65497815558**
Chosen Option : --

Q.22 A rectangular water reservoir contains 126 kilolitres of water. The depth of the reservoir is 3.5 m and its length measures 8 m. What is the width of the reservoir?
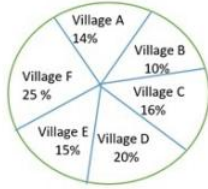
Ans ✓ 1. 4.5 m

✗ 2. 4.2 m

✗ 3. 4 m

✗ 4. 5 m

Question ID : **65497814866**
Chosen Option : --

Q.23 Study the following pie chart and table and answer the question given below.

The given chart represents the percentage distribution of the population of six villages A, B, C, D, E and F in 2016.

Village	Percentage of population below the poverty line
A	30%
B	45%
C	55%
D	60%
E	58%
F	40%

If the population below the poverty line in village A is 42000, then the population above the poverty line in village A is:

Ans
✗ 1. 95000

✗ 2. 85000

✔ 3. 98000

✗ 4. 88000

Question ID : **65497815575**
Chosen Option : --

Q.24 If the ratio of the mode and median of a certain data is 9 : 8, then the ratio of its mean and median is:

Ans
✗ 1. 15 : 17

✗ 2. 13 : 15

✔ 3. 15 : 16

✗ 4. 11 : 15

Question ID : **65497815567**
Chosen Option : --

Q.25 Instead of dividing ₹3,910 among P, Q and R in the ratio $\frac{1}{4} : \frac{1}{5} : \frac{1}{8}$, by mistake it was divided in the ratio 4 : 5 : 8. By how much did R gain in this transaction?

Ans
✔ 1. ₹990

✗ 2. ₹940

✗ 3. ₹890

✗ 4. ₹900

Question ID : **65497815563**
Chosen Option : --