

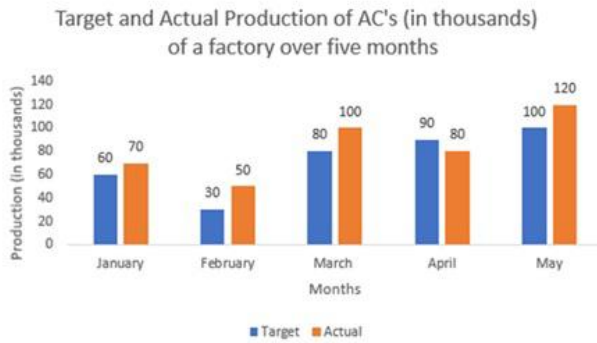
Section : Numerical Aptitude

Q.1 Twenty persons take 15 days to complete a certain work, working 8 hours a day. To complete the same work in 4 days, the number of hours a day 60 persons should work, is:

- Ans**
- 1. 11
 - 2. 12
 - 3. 9
 - 4. 10

Question ID : 65497816461
Chosen Option : 4

Q.2 Study the following graph and answer the question that follows.



In which month is the actual production of ACs 20% more than the target production?

- Ans
- 1. March
 - 2. May
 - 3. April
 - 4. February

Question ID : 65497816485
Chosen Option : 2

Q.3 Two trains of the same length are running on parallel tracks in the same direction at 44 km/h and 32 km/h. The faster train passes the other train in 72 seconds. What is the length (in m) of each train?

- Ans
- 1. 135
 - 2. 120
 - 3. 100
 - 4. 75

Question ID : 65497816464
Chosen Option : 2

Q.4 The area of the curved surface of a right circular cylinder is 19.5 m^2 and its volume is 39 m^3 . What is the radius (in m) of its base?

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

Question ID : 65497816477
Chosen Option : 4

Q.5 An aeroplane covers a certain distance at a speed of 190 km/h in 7 hours. To cover the same distance in $4\frac{3}{4}$ hours, it must travel at a speed (in km/h) of:

- Ans**
- 1. 275
 - 2. 280
 - 3. 300
 - 4. 240

Question ID : 65497816463
Chosen Option : 2

Q.6 The value of $\frac{7}{10} \div \frac{7}{5}$ of $\left[\frac{21}{10} + \frac{13}{5}\right] + \left[\frac{1}{10} \times \frac{10}{47} - \frac{6}{47}\right]$ is:

- Ans**
- 1. 5
 - 2. 0
 - 3. 1
 - 4. 10

Question ID : 65497815370
Chosen Option : 2

Q.7 In an examination, the ratio of the number of candidates who passed to those who failed was 5 : 2. If the number of failed candidates had been 14 more, then the ratio of the number of passed candidates to those who failed would have been 4 : 3. The number of candidates who appeared in the examination was:

- Ans**
- 1. 126
 - 2. 98
 - 3. 70
 - 4. 100

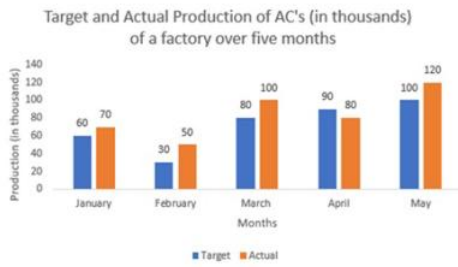
Question ID : 65497816473
Chosen Option : 2

Q.8 Two circles of radii 10 cm and 12 cm intersect each other and the length of their common chord is 16 cm. What is the distance (in cm) between their centres?

- Ans**
- 1. $6 + 3\sqrt{5}$
 - 2. $6 + 4\sqrt{5}$
 - 3. $6 + 5\sqrt{5}$
 - 4. $6 + 2\sqrt{5}$

Question ID : 65497816478
Chosen Option : --

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



The ratio of the actual production of AC's in March and April to that of the combined target production of AC's in January and April, is:

- Ans**
- ✓ 1. 6 : 5
 - ✗ 2. 5 : 6
 - ✗ 3. 5 : 2
 - ✗ 4. 2 : 5

Question ID : 65497816483
Chosen Option : 1

Q.10

If $x : y : z = 1 : 2 : 3$, what is the value of $\left(\frac{x^2 + 2y^2 + z^2}{3x^2 - 2y^2 + 4z^2}\right)$?

- Ans**
- ✗ 1. $\frac{15}{31}$
 - ✗ 2. $\frac{16}{31}$
 - ✓ 3. $\frac{18}{31}$
 - ✗ 4. $\frac{19}{31}$

Question ID : 65497816471
Chosen Option : 3

Q.11 Which is the largest number that will divide 2036 and 233 leaving remainders 12 and 13, respectively?

- Ans**
- ✗ 1. 36
 - ✓ 2. 44
 - ✗ 3. 42
 - ✗ 4. 46

Question ID : 65497816480
Chosen Option : 2

Q.12 The ratio of the income of A and B is 1 : 2 and that of their expenditure is 2 : 3. If 80% of B's expenditure is equal to the income of A, then what is the ratio of the savings of A and B?

- Ans**
- 1. 9 : 2
 - 2. 2 : 9
 - 3. 7 : 3
 - 4. 3 : 7

Question ID : 65497816472
Chosen Option : 2

Q.13 The average monthly expenditure of a family was ₹10,000 during the first three months, ₹12,500 during the next four months, and ₹13,500 during the last five months of a year. If the total savings during the year were ₹32,500, then the average monthly income (in ₹) of the family was:

- Ans**
- 1. 15,000
 - 2. 17,250
 - 3. 13,750
 - 4. 14,250

Question ID : 65497816465
Chosen Option : 1

Q.14 When the price of sugar gets raised by 30%, a person increases his expenditure on sugar only by 12%. By what percentage (correct up to two decimal places) should he reduce his consumption of sugar so as to be able to maintain the same level of expenditure?

- Ans**
- 1. 12.75%
 - 2. 13.85%
 - 3. 11.54%
 - 4. 15.75%

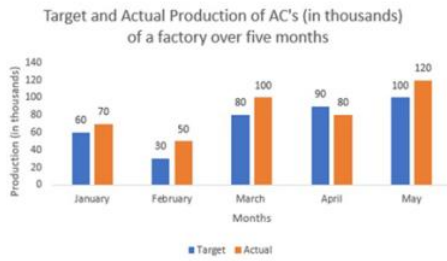
Question ID : 65497816468
Chosen Option : 2

Q.15 'A' alone can do a piece of work in 10 days and 'B' alone can do it in 15 days. 'A' and 'B' undertook to do the work for ₹42,000. With the help of 'C', they completed the work in 5 days. How much (in ₹) is to be paid to C?

- Ans**
- 1. 7,000
 - 2. 15,000
 - 3. 14,000
 - 4. 21,000

Question ID : 65497816462
Chosen Option : 1

Q.16 Study the following graph and answer the question that follows.



The actual production of ACs in March is what percentage more than the average target production of ACs over the period of 5 months (correct to the nearest integer)?

- Ans**
- 1. 38%
 - 2. 40%
 - 3. 39%
 - 4. 41%

Question ID : 65497816484
Chosen Option : 3

Q.17 A sells an article to B at 12 % profit. B sells it to C at 9% loss. If C pays ₹15,288 for it, then at what price (in ₹) is the article purchased by A?

- Ans**
- 1. 15,000
 - 2. 16,000
 - 3. 16,800
 - 4. 14,250

Question ID : 65497816470
Chosen Option : 1

Q.18 In a week, the weights of a bag of tea were 350 kg, 280 kg, 340 kg, 270 kg, 360 kg, 310 kg, 300 kg. The range (in kg) is:

- Ans**
- 1. 80
 - 2. 100
 - 3. 90
 - 4. 70

Question ID : 65497816476
Chosen Option : --

Q.19 What is the area (in cm^2) of a trapezium whose parallel sides are 25 cm and 19 cm long, and the distance between them is 15 cm?

- Ans**
- 1. 330
 - 2. 410
 - 3. 345
 - 4. 275

Question ID : 65497816479
Chosen Option : 1

Q.20 The selling price of an article is $\frac{7}{6}$ times the cost price. What is the loss/gain percentage (correct up to two decimal places)?

- Ans**
- 1. Loss 19.54%
 - 2. Gain 19.54%
 - 3. Loss 16.67%
 - 4. Gain 16.67%

Question ID : 65497816469
Chosen Option : 3

Q.21 A farmer borrowed ₹1,32,000 from a money lender to do cultivation in his field. The rate of interest is 12.5% p.a. compounded annually. At the end of two years, he cleared his loan by paying ₹1,07,062.50 and his scooter. The cost (in ₹) of the scooter is:

- Ans**
- 1. 50,000
 - 2. 45,000
 - 3. 75,000
 - 4. 60,000

Question ID : 65497816474
Chosen Option : 4

Q.22 After allowing a discount of 10% on the marked price of an article, it is sold for ₹450. Had the discount not been given, the profit would have been 25%. What is the cost price (in ₹) of the article?

- Ans**
- 1. 625
 - 2. 375
 - 3. 400
 - 4. 500

Question ID : 65497816467
Chosen Option : 3

Q.23 There are 100 students in a class, out of which 70% are girls and others are boys. The average score of girls in a test is 20% more than that of boys. If the average score of all the students is 57, then what is the average score of boys?

- Ans**
- 1. 60
 - 2. 45
 - 3. 50
 - 4. 75

Question ID : 65497816466
Chosen Option : 3

Q.24

What is the simplified value of $\left\{ \left(4 - \frac{2}{1 + \frac{2}{1 - \frac{1}{2 + \frac{3}{4}}}} \right) \div 1 \frac{5}{12} \text{ of } \frac{72}{145} - (4 + 3 \div 0.5 - 1) \right\}$?

Ans 1. -4

2. 1

3. 3

4. -2

Question ID : 65497817492

Chosen Option : --

Q.25 Eight copies of a book can be bought for a certain sum payable at the end of a year and ten copies of the same book can be bought for the same sum in cash money. What is the rate percentage of the interest?

Ans 1. 30%

2. 25%

3. 10%

4. 15%

Question ID : 65497816475

Chosen Option : 2

