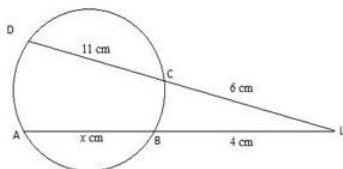


Section : Quantitative Aptitude(Basic Arithmetic Skill)

Q.1 In the given figure, chords AB and CD are intersecting each other at point L. Find the length of AB.



- Ans
- 1. 23.5 cm
 - 2. 21.5 cm
 - 3. 22.5 cm
 - 4. 24.5 cm

Question ID : 8161611329
Status : Answered
Chosen Option : 2

Q.2 A dealer marks his goods at 30% above the cost price. Then he allows 35% discount on it. What would be his loss percentage?

- Ans 1. 15.5%
 2. 16.5%
 3. 17.5%
 4. 18.5%

Question ID : 8161611323
Status : Answered
Chosen Option : 1

Q.3 The difference between two numbers is 43 and their product is 50. Find the sum of their squares.

- Ans 1. 1947
 2. 1949
 3. 1946
 4. 1948

Question ID : 8161611332
Status : Answered
Chosen Option : 2

Q.4 The perimeter of a rectangle is 50 cm. Its area and length are in the ratio of 5 : 1. Find the length of the rectangle.

- Ans 1. 22 cm
 2. 18 cm
 3. 20 cm
 4. 15 cm

Question ID : 8161611321
Status : Answered
Chosen Option : 3

Q.5 Two sides of a triangle are of length 3 cm and 8 cm. If the length of the third side is 'x' cm, then:

- Ans 1. $x > 11$
 2. $0 < x < 11$
 3. $5 < x$
 4. $5 < x < 11$

Question ID : 8161611330
Status : Answered
Chosen Option : 4

Q.6 What will come at place of x, ($x < 10$) for $\frac{(132 + 12 \times x - 3 \times 3)}{(5^2 - 6 \times 4 + x^2)} = 1$?

- Ans
- 1. 3
 - 2. 1
 - 3. 4
 - 4. 2

Question ID : 8161611336
 Status : Answered
 Chosen Option : 2

Q.7 If $x + y = 4$, $xy = 2$, $y + z = 5$, $yz = 3$, $z + x = 6$ and $zx = 4$, then find the value of $x^3 + y^3 + z^3 - 3xy$.

- Ans
- 1. 151.75
 - 2. 152.75
 - 3. 153.75
 - 4. 150.75

Question ID : 8161611334
 Status : Answered
 Chosen Option : 4

Q.8 How much should be added to each term of 4 : 7 so that it becomes 2 : 3?

- Ans
- 1. 2
 - 2. 3
 - 3. 4
 - 4. 1

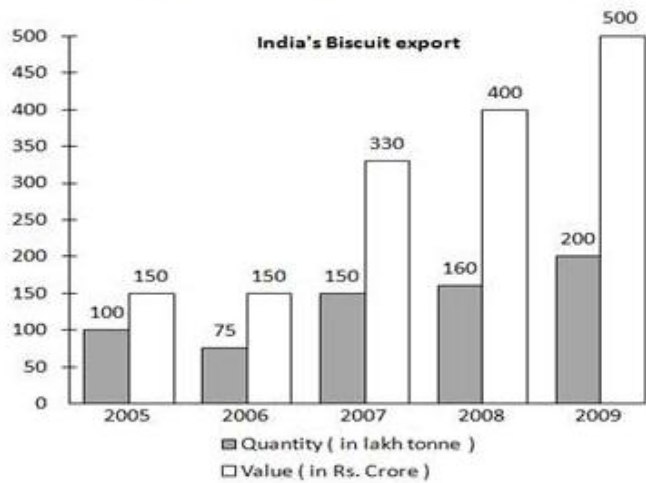
Question ID : 8161611326
 Status : Answered
 Chosen Option : 1

Q.9 If M is the mid-point of the side BC of ΔABC , and the area of ΔABM is 18 cm^2 , then the area of ΔABC is:

- Ans
- 1. 36 cm^2
 - 2. 34 cm^2
 - 3. 30 cm^2
 - 4. 32 cm^2

Question ID : 8161611331
 Status : Answered
 Chosen Option : 1

Q.10 Study the following graph and answer the question.



In which year was the value per tonne the minimum?

- Ans
- 1. 2009
 - 2. 2007
 - 3. 2005
 - 4. 2006

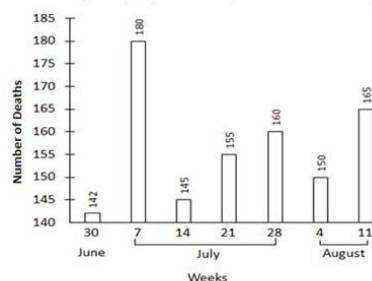
Question ID : 8161611343
Status : Answered
Chosen Option : 3

Q.11 X and Y together can finish a piece of work in 15 days, while Y alone can finish it in 40 days. X alone can finish the work in:

- Ans
- 1. 24 days
 - 2. 26 days
 - 3. 25 days
 - 4. 23 days

Question ID : 8161611319
Status : Answered
Chosen Option : 1

Q.12 The following bar graph shows the number of deaths from road accidents occurred during the rainy season in the year 1992. Study the graph carefully and answer the question.



Between which two consecutive weeks was the rise in the number of deaths the greatest?

- Ans**
- 1. 4 August to 11 August
 - 2. 30 June to 7 July
 - 3. 14 July to 21 July
 - 4. 21 July to 28 July

Question ID : 8161611342
 Status : Answered
 Chosen Option : 2

Q.13 Find the value of $\frac{\cos 30^\circ - \sin 30^\circ}{\sin 60^\circ + \cos 60^\circ}$.

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

Question ID : 8161611337
 Status : Answered
 Chosen Option : 1

Q.14 Sachin's income is 25% more than Dileep's income. By how much percentage is Dileep's income less than Sachin's income?

- Ans**
- 1. 15%
 - 2. 20%
 - 3. 18%
 - 4. 22%

Question ID : 8161611324
 Status : Answered
 Chosen Option : 2

Q.15 Sohan sold a plot for ₹2,55,000 at a 15% loss. At what price should he sell the plot to gain a 10% profit?

- Ans
- 1. ₹3,00,000
 - 2. ₹3,33,000
 - 3. ₹3,30,000
 - 4. ₹3,33,300

Question ID : 8161611325
Status : Answered
Chosen Option : 3

Q.16 A batsman in his 11th inning makes a score of 77 runs, thereby increasing his average scores by 3. What is his average score after the 11th inning?

- Ans
- 1. 46
 - 2. 47
 - 3. 48
 - 4. 49

Question ID : 8161611322
Status : Answered
Chosen Option : 2

Q.17 If $\operatorname{cosec}\theta + \cot\theta = 2$, then $\sin\theta$ is:

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

Question ID : 8161611338
Status : Answered
Chosen Option : 1

Q.18 If $a^3 + b^3 = 20$ and $a + b = 5$, then find the value of $a^4 + b^4$.

- Ans
- 1. 26
 - 2. 23
 - 3. 25
 - 4. 24

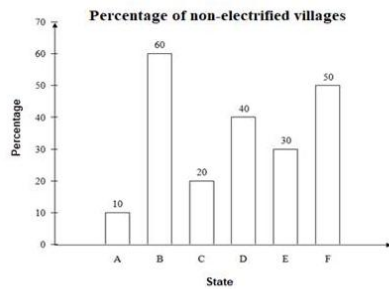
Question ID : 8161611333
Status : Answered
Chosen Option : 3

Q.19 If $\sec^2 x - 3\sec x + 2 = 0$, then the value of $x(0 < x < 90^\circ)$ is:

- Ans
- 1. 30°
 - 2. 15°
 - 3. 60°
 - 4. 45°

Question ID : 8161611339
Status : Answered
Chosen Option : 3

Q.20 The given bar graph represents the Percentage of non-electrified villages in 6 states A, B, C, D, E and F. Study the graph and answer the question that follows.

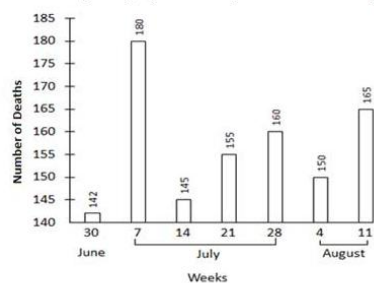


How many states have at most 30% or less non-electrified villages?

- Ans
- 1. 3
 - 2. 2
 - 3. 1
 - 4. 4

Question ID : 8161611340
Status : Answered
Chosen Option : 1

Q.21 The following bar graph shows the number of deaths from road accidents occurred during the rainy season in the year 1992. Study the graph carefully and answer the question.



Between which two consecutive weeks was the fall in the number of deaths the greatest?

- Ans**
- 1. 7 July to 14 July
 - 2. 21 July to 28 July
 - 3. 30 June to 7 July
 - 4. 28 July to 4 August

Question ID : 8161611341
 Status : Answered
 Chosen Option : 1

Q.22 A 5 cm long perpendicular is drawn from the centre of a circle to a 24 cm long chord. Find the diameter of the circle.

- Ans**
- 1. 26 cm
 - 2. 32 cm
 - 3. 13 cm
 - 4. 30 cm

Question ID : 8161611328
 Status : Answered
 Chosen Option : 1

Q.23 Which of the following numbers will completely divide $7^{81} + 7^{82} + 7^{83}$?

- Ans**
- 1. 389
 - 2. 399
 - 3. 387
 - 4. 397

Question ID : 8161611335
 Status : Answered
 Chosen Option : 2

Q.24 The difference of simple interest on a sum of money for 8 years and 10 years is ₹200. If the rate of interest is 10 % p.a, then what is the sum of money?

- Ans
- 1. ₹1,600
 - 2. ₹1,000
 - 3. ₹1,200
 - 4. ₹1,400

Question ID : 8161611327
Status : Answered
Chosen Option : 2

Q.25 A man walks from point X to Y at a speed of 20 km/h, but comes back from point Y to X at a speed of 25 km/h. Find his average speed.

- Ans
- 1. $22\frac{2}{9}$ km/h
 - 2. $24\frac{2}{9}$ km/h
 - 3. $23\frac{2}{9}$ km/h
 - 4. $25\frac{2}{9}$ km/h

Question ID : 8161611320
Status : Answered
Chosen Option : 1