

Q.1 The compound interest on ₹4,000 at the rate of 5% p.a. is ₹630.50, then the time period is:

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

Question ID : 8161612392
Status : Answered
Chosen Option : 2

Q.2 If $\tan x = \frac{3}{2}$, then the value of $\frac{3\sin x + 2\cos x}{3\sin x - 2\cos x}$ is :

- Ans
- 1. 5
 - 2. $\frac{5}{13}$
 - 3. $\frac{13}{5}$
 - 4. $\frac{1}{5}$

Question ID : 8161612403
Status : Answered
Chosen Option : 3

Q.3 The value of $4 + [3\{35 + (42 + 10 \div 2 \times 3 - 40)\} + 7]$ is :

- Ans
- 1. 167
 - 2. 163
 - 3. 185
 - 4. 157

Question ID : 8161612401
Status : Answered
Chosen Option : 1

Q.4 The areas of two similar triangles are 324 cm^2 and 225 cm^2 . If the altitude of the smaller triangle is 10 cm, then the altitude of the bigger triangle in centimetres, is:

- Ans
- 1. 16
 - 2. 14
 - 3. 18
 - 4. 12

Question ID : 8161612396
Status : Answered
Chosen Option : 4

Q.5 A boat covered a distance of 15 km upstream in 5 hours and a distance of 42 km downstream in 6 hours. The speed of the stream in km/h is:

- Ans**
- 1. 2
 - 2. 3
 - 3. 1.5
 - 4. 2.5

Question ID : 8161612385
Status : Answered
Chosen Option : 1

Q.6 If $\sec\theta$ and $\sin\theta$ ($0 < \theta < 90$) are the roots of the equation $\sqrt{6}x^2 - kx + \sqrt{6} = 0$, then the value of k is:

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

Question ID : 8161612404
Status : Marked For Review
Chosen Option : 1

Q.7 The cost price of 12 pens is equal to the selling price of 8 pens. The profit percentage is:

- Ans**
- 1. 50%
 - 2. 45%
 - 3. 40%
 - 4. 55%

Question ID : 8161612390
Status : Answered
Chosen Option : 1

Q.8 The length and breadth of a cuboid are increased by 10% and 20%, respectively, and its height is decreased by 20%. The percentage increase in the volume of the cuboid is:

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

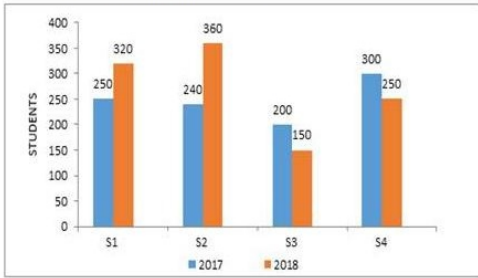
Question ID : 8161612389
Status : Answered
Chosen Option : 3

Q.9 If $\cos x = \frac{24}{25}$, $0 \leq x \leq 90^\circ$, then the value of $\cot x + \operatorname{cosec} x$ is:

- Ans
- 1. 1
 - 2. $\frac{7}{2}$
 - 3. 7
 - 4. 0

Question ID : 8161612402
 Status : Answered
 Chosen Option : 3

Q.10 The given bar graph represents the number of students admitted in four schools (S1, S2, S3, S4) during two consecutive years 2017 and 2018.



What is the average number of students admitted to all schools in 2018?

- Ans
- 1. 280
 - 2. 275
 - 3. 290
 - 4. 270

Question ID : 8161612406
 Status : Answered
 Chosen Option : 4

Q.11 $(a + 2b)^2 - (a - 2b)^2$ is equal to:

- Ans
- 1. $10ab$
 - 2. $4ab$
 - 3. $8ab$
 - 4. $6ab$

Question ID : 8161612397
 Status : Answered
 Chosen Option : 3

Q.12 In an equilateral triangle, the value of each exterior angle is:

- Ans
- 1. 120°
 - 2. 100°
 - 3. 140°
 - 4. 130°

Question ID : 8161612395
Status : Answered
Chosen Option : 1

Q.13 If $x : y = 3 : 2$ and $x + y = 90$. Then the value $7(x - y) : (x + y)$ is:

- Ans
- 1. $7 : 6$
 - 2. $7 : 9$
 - 3. $2 : 3$
 - 4. $7 : 5$

Question ID : 8161612391
Status : Answered
Chosen Option : 4

Q.14 The radius of a circular cylinder is 5 cm and its height is 14 cm. Then the volume of cylinder in cm^3 is:

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

- Ans
- 1. 1254
 - 2. 1100
 - 3. 1120
 - 4. 1504

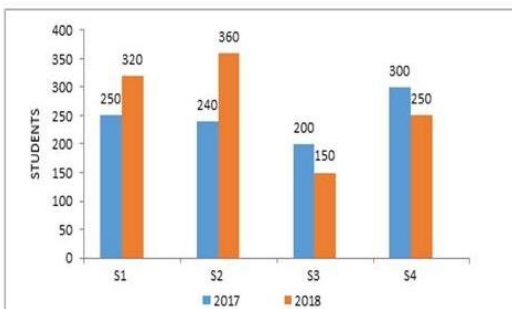
Question ID : 8161612386
Status : Answered
Chosen Option : 2

Q.15 Find the values of x for the given equation $3x^2 + 5x - 2 = 0$

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

Question ID : 8161612398
Status : Answered
Chosen Option : 4

Q.16 The given bar graph represents the number of students admitted in four schools (S1, S2, S3, S4) during two consecutive years 2017 and 2018.



What percentage is the average admission of schools S3 and S4 in 2018 of the average admission of schools S1 and S2 in 2017?

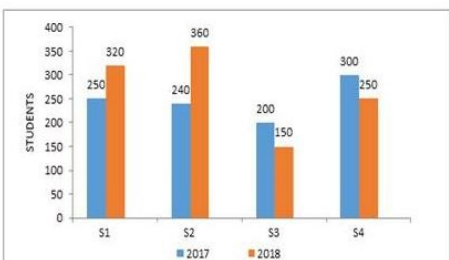
- Ans**
- 1. 82.00%
 - 2. 81.63%
 - 3. 81.00%
 - 4. 82.63%

Question ID : 8161612408

Status : Answered

Chosen Option : 2

Q.17 The given bar graph represents the number of students admitted in four schools (S1, S2, S3, S4) during two consecutive years 2017 and 2018.



The ratio between total number of students admitted in the four schools in 2017 to the total number of students admitted in the four schools in 2018 is:

- Ans**
- 1. 11 : 13
 - 2. 12 : 11
 - 3. 11 : 12
 - 4. 13 : 11

Question ID : 8161612405

Status : Answered

Chosen Option : 3

Q.18 Tap A can fill a tank in 20 hours and tap B can fill the same tank in 30 hours. If both taps are opened together, then how much time will be taken to fill the tank?

- Ans**
- 1. 12 hours
 - 2. 10 hours
 - 3. 24 hours
 - 4. 16 hours

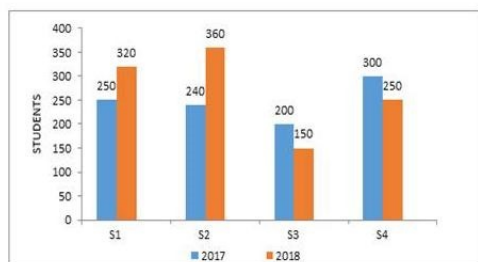
Question ID : **8161612384**
 Status : **Answered**
 Chosen Option : **1**

Q.19 Two tangents AP and AQ are drawn to a circle with centre O from an external point A, where P and Q are points on the circle. If $AP = 12$ cm and $\angle PAQ = 60^\circ$, then the length of chord PQ is:

- Ans**
- 1. 10 cm
 - 2. 24 cm
 - 3. 12 cm
 - 4. 16 cm

Question ID : **8161612394**
 Status : **Answered**
 Chosen Option : **3**

Q.20 The given bar graph represents the number of students admitted in four schools (S1, S2, S3, S4) during two consecutive years 2017 and 2018.



The total number of students admitted in school S3 for both years is approximately what percent of total student admitted in school S2 for both years?

- Ans**
- 1. 58.33%
 - 2. 52.33%
 - 3. 54.33%
 - 4. 48.33%

Question ID : **8161612407**
 Status : **Answered**
 Chosen Option : **1**

Q.21 If $2x^3 + ax^2 + bx - 2$ leaves the remainders 7 and 0 when divided by $(2x - 3)$ and $(x + 2)$, respectively, then the values of a and b are respectively:

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

Question ID : 8161612399
Status : Answered
Chosen Option : 2

Q.22 If the cost price of a book after 10% discount is ₹486, then the marked price of the book is:

- Ans
- 1. ₹580
 - 2. ₹560
 - 3. ₹600
 - 4. ₹540

Question ID : 8161612388
Status : Answered
Chosen Option : 4

Q.23 Which are the two nearest numbers to 19,596, divisible by 9?

- Ans
- 1. 19,611; 19,575
 - 2. 19,593; 19,602
 - 3. 19,564; 19,620
 - 4. 19,509; 19,611

Question ID : 8161612400
Status : Answered
Chosen Option : 2

Q.24 Two tangents AP and AQ are drawn to a circle with centre O from an external point A, where P and Q are points on the circle. If the $\angle PAQ = 70^\circ$, then the $\angle AOP$ is equal to:

- Ans
- 1. 45°
 - 2. 55°
 - 3. 60°
 - 4. 50°

Question ID : 8161612393
Status : Answered
Chosen Option : 2

Q.25 Six years ago, the average of the ages of Ravi, Mohan and Govind was 32 years. If Shyam joins them now, the average of the ages of all four of them is 36 years. The present age of Shyam is:

- Ans
- 1. 40 years
 - 2. 32 years
 - 3. 35 years
 - 4. 30 years

Question ID : 8161612387
Status : Answered
Chosen Option : 4