

Q.1 A shopkeeper mixed two kinds of rice in the ratio 1 : 5. Type 1 rice costs ₹65 per kg and type 2 rice costs ₹95 per kg. He sold the mixed rice at ₹99 per kg. Find his gain percentage.

Ans

1. $25\frac{1}{3}\%$

2. 19%

3. 10%

4. 4%

Question ID : 65497817884
Chosen Option : 4

Q.2 The LCM of two numbers is 90, whereas their HCF is 6. If one number is 12 more than the other, then the greater number is:

Ans

1. 12

2. 45

3. 30

4. 51

Question ID : 65497817894
Chosen Option : 3

Q.3 The average age of Akhil and Sunita is 51 years, of Sunita and Veena is 31 years, and that of Veena and Akhil is 33 years. The age of Veena is:

Ans

1. 13 years

2. 49 years

3. 53 years

4. 17 years

Question ID : 65497817880
Chosen Option : 1

Q.4 A train 700 m long, is running at a speed of 60 km/h. If it takes 72 seconds to cross a bridge, then find the length of the bridge.

Ans

1. 1700 m

2. 1200 m

3. 600 m

4. 500 m

Question ID : 65497817877
Chosen Option : 2

Q.5 A shopkeeper bought a computer for ₹42,000 and a printer for ₹3,000. If he sold both the items together for ₹51,750, then his profit percentage is:

- Ans**
- ✓ 1. 15%
 - ✗ 2. $17\frac{2}{9}\%$
 - ✗ 3. $16\frac{1}{14}\%$
 - ✗ 4. $23\frac{3}{14}\%$

Question ID : 65497817883
Chosen Option : 1

Q.6 The value of $4\frac{1}{3} + \left[7\frac{2}{3} - \frac{4}{3}\left(\frac{25}{3} - \frac{1}{6} - \frac{2}{3}\right)\right]$ is:

- Ans**
- ✗ 1. 5
 - ✗ 2. 8
 - ✓ 3. 2
 - ✗ 4. 10

Question ID : 65497816077
Chosen Option : 3

Q.7 A radius of a circular park is 23 m. It has inside all around it, a 4 m wide path. Find the cost of paving the path at the rate of ₹500/m².
(Take $\pi = \frac{22}{7}$)

- Ans**
- ✗ 1. ₹2,10,000
 - ✓ 2. ₹2,64,000
 - ✗ 3. ₹2,60,000
 - ✗ 4. ₹2,40,000

Question ID : 65497817892
Chosen Option : 4

Q.8 A bookseller buys books at a discount of 25% on the marked price. How much per cent discount should he offer so as to gain 20% on the sale?

- Ans**
- ✗ 1. 25%
 - ✗ 2. 20%
 - ✗ 3. 30%
 - ✓ 4. 10%

Question ID : 65497817881
Chosen Option : 4

Q.9 Kanika took a loan of ₹10,000 for 2 years on compound interest at the rate of 5% per annum, interest being compounded annually. How much money would she have saved if she had taken the loan on simple interest?

- Ans
- 1. ₹1,025
 - 2. ₹1,000
 - 3. ₹25
 - 4. ₹400

Question ID : 65497817888
Chosen Option : 3

Q.10 A shopkeeper placed a supply order for jeans, shirts and t-shirts at the rates of ₹500, ₹350 and ₹200 per piece, respectively. He buys articles of each type in the ratio 1 : 2 : 3 for ₹46,800. For how many t-shirts did he place the order?

- Ans
- 1. 104
 - 2. 26
 - 3. 78
 - 4. 52

Question ID : 65497817885
Chosen Option : 3

Q.11 If the median of the following data is 11, then find the value of k.
3, 21, 10, 7, 6, 9, (k+6), 15, 20, 16

- Ans
- 1. 4
 - 2. 7
 - 3. 6
 - 4. 5

Question ID : 65497817890
Chosen Option : 2

Q.12 The average of the first 10 multiples of 5 is:

- Ans
- 1. 32.5
 - 2. 30
 - 3. 27.5
 - 4. 40

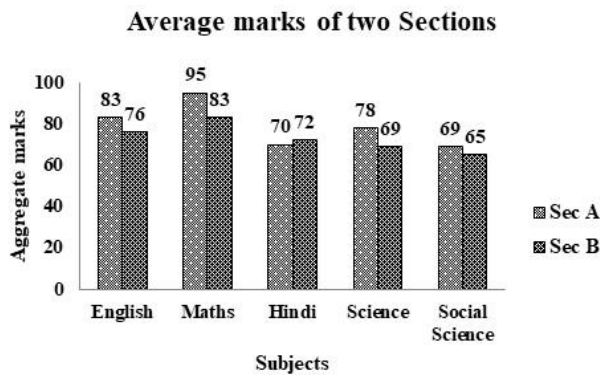
Question ID : 65497817879
Chosen Option : 3

Q.13 Babul runs a juice corner outside a park and sells giloy juice (giloy + water) in the morning. Initially he had 19 litres juice, which had giloy and water in the ratio 2 : 9. He sold $2\frac{1}{2}$ litres juice. Later, in order to dilute it, he added some water and the ratio of giloy and water became 1 : 5. How much water was added?

- Ans**
- ✓ 1. $1\frac{1}{2}$ litres
 - ✗ 2. $\frac{1}{2}$ litre
 - ✗ 3. 2 litres
 - ✗ 4. 1 litre

Question ID : 65497817887
Chosen Option : 2

Q.14 The average marks of students of section A and section B of class XI in a school have been presented in the given bar graph. Study the graph and answer the question that follows.



In how many subjects have the students of section A shown better result?

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

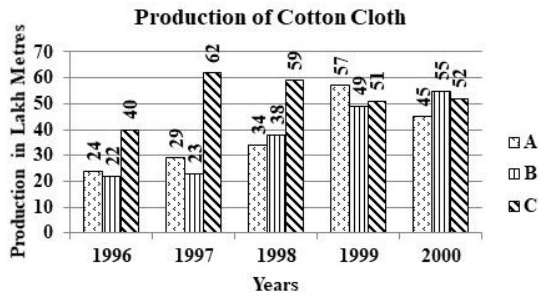
Question ID : 65497817897
Chosen Option : 2

Q.15 If the length of a rectangle is increased by 12% and the width is decreased by 10%, then the ratio of the areas of the original rectangle and the changed rectangle is:

- Ans**
- ✓ 1. 125 : 126
 - ✗ 2. 126 : 125
 - ✗ 3. 1 : 2
 - ✗ 4. 25 : 26

Question ID : 65497817891
Chosen Option : 4

Q.16 The given graph shows the production of cotton cloth (in lakh metres) by three companies A, B and C over the years. Study the graph and answer the question that follows.

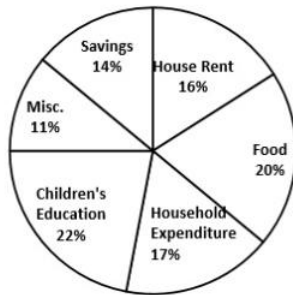


What is the difference (in lakh metres) between increase in the production by company A from 1998 to 1999 and that by company C from 1996 to 1997?

- Ans**
- 1. 21
 - 2. 13
 - 3. 11
 - 4. 1

Question ID : 65497817899
Chosen Option : 4

Q.17 The Gupta family spends their monthly income on different heads as shown in the given pie chart. Study the chart and answer the question that follows.



By how much is the central angle of the amount spent on Misc. and House Rent taken together more than that on Household Expenditure?

- Ans**
- 1. 40°
 - 2. 30°
 - 3. 36°
 - 4. 10°

Question ID : 65497817898
Chosen Option : 2

Q.18 If a car covers a certain distance in 1 hour 24 minutes by covering two-third of the distance at 52 km/h and the rest at 65 km/h, then find the total distance.

- Ans**
- ✓ 1. 78 km
 - ✗ 2. 163.8 km
 - ✗ 3. 75.8 km
 - ✗ 4. 46.8 km

Question ID : 65497817878
Chosen Option : 3

Q.19 A solid metallic toy has a hemispherical base with radius 3.5 cm surmounted by a cone. If the height of the cone is the same as the radius of its base, then the volume of metal used in cm^3 is: (Take $\pi = \frac{22}{7}$)

- Ans**
- ✗ 1. $89\frac{2}{3} cm^3$
 - ✗ 2. $144\frac{3}{4} cm^3$
 - ✓ 3. $134\frac{3}{4} cm^3$
 - ✗ 4. $179\frac{2}{3} cm^3$

Question ID : 65497817893
Chosen Option : 3

Q.20 Sumit invested ₹50,000 each in two banks for 2 years. The first bank gives simple interest at the rate of 11% per annum, while the other bank gives compound interest, compounded annually at the rate of 10% per annum. How much interest did he earn from the two banks in 2 years?

- Ans**
- ✗ 1. ₹21,000
 - ✗ 2. ₹10,000
 - ✗ 3. ₹10,500
 - ✓ 4. ₹21,500

Question ID : 65497817889
Chosen Option : 4

Q.21 16% of the voters did not cast their votes in an election between two candidates. 10% of the votes polled were found to be invalid. The successful candidate got 60% of valid votes and won by a margin of 567 votes. The number of voters enrolled in the voter list is:

- Ans**
- ✗ 1. 3000
 - ✓ 2. 3750
 - ✗ 3. 2500
 - ✗ 4. 3570

Question ID : 65497817882
Chosen Option : 2

Q.22 It was intended that ₹2,820 be divided among A, B and C in the ratio of 3 : 4 : 5, but by mistake the distribution was made in the proportion of $\frac{1}{3} : \frac{1}{4} : \frac{1}{5}$. How much does A gain by the error?

- Ans
- 1. ₹500
 - 2. ₹495
 - 3. ₹720
 - 4. ₹17

Question ID : 65497817886
Chosen Option : 2

Q.23 6 men and 8 women as well as 3 men and 13 women can finish the same work in 10 days. In how many days will 6 women finish the same work if they work alone?

- Ans
- 1. 32
 - 2. 25
 - 3. 30
 - 4. 35

Question ID : 65497817876
Chosen Option : 1

Q.24 A man can do a work in 6 days, whereas a woman can do the same work in 12 days. In how many days will a man and a woman working together be able to do the same work?

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

Question ID : 65497817875
Chosen Option : 1

Q.25 The simplified value of $\frac{1 \div \frac{2}{7} \text{ of } (6 + 8 \times 3 - 2) + \left[\frac{1}{5} \div \frac{7}{25} - \left(\frac{2}{7} + \frac{8}{14} \right) \right]}{18 \div 10 - 4 + 32 \div (4 + 10 \div 2 - 1)}$ is:

- Ans
- 1. $-\frac{5}{42}$
 - 2. $\frac{5}{42}$
 - 3. $-\frac{5}{294}$
 - 4. $\frac{5}{294}$

Question ID : 65497818199
Chosen Option : --