

Q.1

Simplify the following expression.

$$\frac{135 \div \frac{1}{3} \text{ of } 5 - 2\frac{2}{3} \div 1\frac{1}{3} + 6}{(15^2 + 9 \div 3) - (10 - 5 \times \frac{2}{5})}$$

Ans

✗ 1.  $\frac{17}{10}$

✗ 2.  $\frac{217}{226}$

✓ 3.  $\frac{17}{44}$

✗ 4.  $\frac{73}{26}$

Question ID : 65497818098  
Chosen Option : 3

Q.2 A town with literacy rate of 85% has a population of 2500. If male population is 55%, and 92% of them are literate, then find the literacy rate of females in the town.

Ans

✗ 1. 82%

✗ 2. 75%

✗ 3.  $72\frac{5}{9}\%$

✓ 4.  $76\frac{4}{9}\%$

Question ID : 65497817680  
Chosen Option : 4

Q.3 A shopkeeper sells 6 cardigans for ₹3,000 with 20% profit and 10 trousers for ₹6,380 with 16% profit. What is the total profit per cent?

Ans

✓ 1. 17.25%

✗ 2. 11.38%

✗ 3. 18%

✗ 4. 8%

Question ID : 65497817682  
Chosen Option : 1

Q.4 If mode of the following data is 14, then what is the value of k?

11, k, 8, 9, (k-1), 11, 12, 12, 15, (k-1), 14

- Ans
- 1. 13
  - 2. 11
  - 3. 15
  - 4. 12

Question ID : 65497817688  
Chosen Option : 3

Q.5 Two numbers are in the ratio 4 : 5. If 2 is subtracted from the first number and 2 is added to the second number, then their ratio becomes 2 : 3. The difference between the two numbers is:

- Ans
- 1. 5
  - 2. 1
  - 3. 9
  - 4. 2

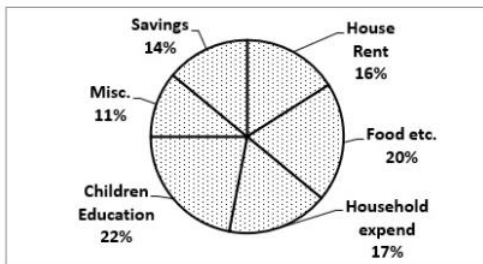
Question ID : 65497817684  
Chosen Option : 1

Q.6 Five men working together can complete a work in 8 days. Om Prakash who can complete the same work independently in 24 days joined them after 4 days. Under the circumstances in how many days the work will be completed?

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

Question ID : 65497817673  
Chosen Option : 3

Q.7 The Gupta family spends their monthly income on different heads as shown in the following pie chart. What is the central angle corresponding to the sector representing expenditure on Food etc.?



- Ans
- 1.  $72^\circ$
  - 2.  $18^\circ$
  - 3.  $60^\circ$
  - 4.  $80^\circ$

Question ID : 65497817696  
Chosen Option : 1

**Q.8** A certain sum doubles itself on simple interest in 10 years. At the same rate of interest in how many years it will become 3 times of itself?

- Ans**
- 1. 12
  - 2. 16
  - 3. 20
  - 4. 15

Question ID : **65497817687**  
Chosen Option : **3**

**Q.9** What will be the compound interest on a sum of ₹15,000 at the interest rate of 8% per annum in one year, interest compounded semi-annually?

- Ans**
- 1. ₹1,224
  - 2. ₹6,224
  - 3. ₹1,200
  - 4. ₹16,224

Question ID : **65497817686**  
Chosen Option : **1**

**Q.10** The value of  $0.04 \div 0.002 + 0.5 \times 0.002 \div 0.0004$  is:

- Ans**
- 1. 20
  - 2. 22.5
  - 3. 22
  - 4. 21.5

Question ID : **65497815976**  
Chosen Option : **2**

**Q.11** In a 200 m walk race, Zakia walks at an average speed of 5 km/h. She gives a start of 20 m to Veena and still beats her by 18 seconds. What is the average speed of Veena (in km/h)?

- Ans**
- 1. 4.2
  - 2. 4.5
  - 3. 4
  - 4. 3.5

Question ID : **65497817676**  
Chosen Option : **--**

Q.12 त्योहार के समय में, ₹5,000 अंकित मूल्य वाला इलेक्ट्रिक गैजेट, निश्चित छूट देने के बाद ₹4,250 में बेचा जाता है। यदि छूट प्रतिशत में 5% की कमी होती है, तो ग्राहकों को किस कीमत पर इलेक्ट्रिक गैजेट उपलब्ध होगा?

- Ans
- ✗ 1. ₹5,000
  - ✗ 2. ₹4,000
  - ✗ 3. ₹4,750
  - ✓ 4. ₹4,500

Question ID : 65497817679  
Chosen Option : 4

Q.13 Amar drives his car for 2 hours at a speed of 70 km/h, for 3 hours at a speed of 80 km/h and for 1 hour at a speed of 40 km/h and reaches his hometown. What is his average speed (in km/h)?

- Ans
- ✗ 1. 64
  - ✓ 2. 70
  - ✗ 3. 60
  - ✗ 4. 66

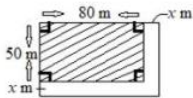
Question ID : 65497817678  
Chosen Option : 2

Q.14 ₹21,000 is divided among A, B and C in such a way that the shares of A and B are in the ratio 2 : 3, and those of B and C are in the ratio 4 : 5. The share of B is:

- Ans
- ✗ 1. ₹12,000
  - ✗ 2. ₹10,500
  - ✓ 3. ₹7,200
  - ✗ 4. ₹7,000

Question ID : 65497817683  
Chosen Option : 3

Q.15 In the given figure, the area of the unshaded region is 35% of the area of the shaded region. What is the value of  $x$ ?



- Ans
- ✗ 1. 20
  - ✗ 2. 15
  - ✓ 3. 10
  - ✗ 4. 5

Question ID : 65497817690  
Chosen Option : 3

**Q.16** Three cubes each having volume  $1728 \text{ cm}^3$  are placed one above the other. What is the total surface area of the resulting solid?

- Ans
- 1.  $2304 \text{ cm}^2$
  - 2.  $2592 \text{ cm}^2$
  - 3.  $2160 \text{ cm}^2$
  - 4.  $2016 \text{ cm}^2$

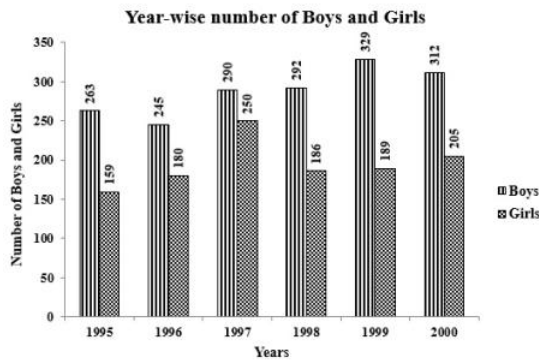
Question ID : 65497817691  
Chosen Option : 4

**Q.17** A and B started a business by investing ₹70,000 each. After 10 months A invests an additional amount of ₹40,000. After 2 more months B withdraws ₹20,000. After 2 more months a third person C joins the business and invests ₹40,000. If at the end of 2 years, C gets ₹7,500 as his share of profit, then what is A's share in the profit?

- Ans
- 1. ₹27,000
  - 2. ₹25,500
  - 3. ₹42,000
  - 4. ₹20,625

Question ID : 65497817685  
Chosen Option : 1

**Q.18** The record of the enrollment of boys and girls in a school over 6 years has been presented in the following bar graph.



In which year was the total enrollment the highest?

- Ans
- 1. 1999
  - 2. 1998
  - 3. 1997
  - 4. 2000

Question ID : 65497817695  
Chosen Option : 3

**Q.19** The average monthly pocket money of 24 girls in a class is ₹275, whereas for 16 boys of the class it is ₹325. What is the average monthly pocket money of the whole class?

- Ans**
- 1. ₹300
  - 2. ₹290
  - 3. ₹310
  - 4. ₹295

Question ID : 65497817677  
Chosen Option : 4

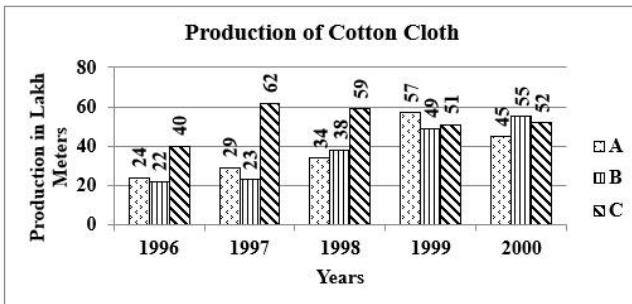
**Q.20** Two numbers differ by 20. If their LCM is 240 and HCF is 20, then the greater number is:

- Ans**
- 1. 120
  - 2. 80
  - 3. 70
  - 4. 60

Question ID : 65497817692  
Chosen Option : 2

**Q.21** The following graph shows the production of cotton cloth (in lakh metres) by three companies A, B and C over the years 1996 - 2000.

The production of company A during 1996-98 is what percentage of the average production of companies B and C during 1998-2000 (correct to two decimal places)?



- Ans**
- 1. 74.36%
  - 2. 89.47%
  - 3. 56.86%
  - 4. 57.24%

Question ID : 65497817697  
Chosen Option : 1

**Q.22** A shopkeeper purchased 10 chairs at the rate of ₹1,450 per chair and spent ₹600 as cartage. For how much should he sell each chair to earn 10% profit?

- Ans
- 1. ₹2,225
  - 2. ₹1,661
  - 3. ₹1,595
  - 4. ₹1,645

Question ID : 65497817681  
Chosen Option : 2

**Q.23** Eight metallic spheres of radius 1 cm are melted to form one sphere. The radius of the resulting sphere is:

- Ans
- 1. 2 cm
  - 2. 8 cm
  - 3. 3 cm
  - 4. 6 cm

Question ID : 65497817689  
Chosen Option : 1

**Q.24** 6 पुरुष किसी कार्य को 64 दिन में पूरा कर सकते हैं। 24 महिलाएं उसी कार्य को 32 दिन में पूरा कर सकती हैं। 16 पुरुष और 24 महिलाएं एक साथ 12 दिन तक कार्य करते हैं, जिसके बाद 8 पुरुष और 8 महिलाएं कार्य छोड़ देती हैं। कार्य को पूरा होने में कितने दिनों का समय लगेगा?

- Ans
- 1. 18
  - 2. 6
  - 3. 3
  - 4. 15

Question ID : 65497817674  
Chosen Option : 4

**Q.25** A car covers a certain distance moving at a constant speed of 50 km/h in 3 hours. How much more time would it have taken to cover the same distance if the speed had been only 40 km/h?

- Ans
- 1. 30 minutes
  - 2. 45 minutes
  - 3. 10 minutes
  - 4. 1 hour

Question ID : 65497817675  
Chosen Option : 2