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PERCENTAGE

1. **75 gm of sugar solution has 30% sugar in it. Then the quantity of sugar that should be added to the solution to make the quantity of the sugar 70% in the solution is :**

   (a) 125 gm

   (b) 100 gm

   (c) 120 gm

   (d) 130 gm

2. **The price of an article is reduced by 25% but the daily sale of the article is increased by 30%. The net effect on the daily sale receipts is :**

   (a) 2½ % increase

   (b) 2½ % decrease

   (c) 2 % increase

   (d) 2 % decrease

3. **The cost of an article was Rs. 75. The cost was first increased by 20% and later on it was reduced by 20%. The present cost of the article is :**

   (a) Rs. 72

   (b) Rs. 60

   (c) Rs. 75

   (d) Rs. 90

4. **When the price of an article was reduced by 20%, its sale increased by 80%. What was the net effect on the sale?**

   (a) 44% increase

   (b) 44% decrease

   (c) 66% increase

   (d) 75% increase

5. When the price of cloth was reduced by 25%, the quantity of cloth sold increased by 20%. What was the effect on the gross receipt of the shop?

    (a) 5% increase

    (b) 5% decrease

    (c) 10% increase

    (d) 10% decrease

6. The cost of an article worth Rs.100 is increased by 10% first and again increased by 10%. The total increase in rupees is :

    (a) 20

    (b) 21

    (c) 110

    (d) 121

7. When the price of sugar decreased by 10%, a man could buy 1 kg more for Rs.270. Then the original price of sugar per kg is:

    (a) Rs. 25

    (b) Rs. 30

    (c) Rs. 27

    (d) Rs. 32

8. A reduction of 10% in the price of an apple enables a man to buy 10 apples more for Rs.54. The reduced price of apples per dozen is :

    (a) Rs. 6.48

    (b) Rs. 12.96

    (c) Rs. 10.80

    (d) Rs. 14.40

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9. First and second numbers are less than a third number by 20% and 40% respectively. The second number is less than the first by:

(a) 7%

(b) 4%

(c) 3%

(d) 25%

10. In a class, the average score of girls in an examination is 73 and that of boys is 71. The average score for the whole class is 71.8. Find the percentage of girls.

(a) 40%

(b) 50%

(c) 55%

(d) 60%

11. If the height of a cylinder is increased by 15% and the radius of its base is decreased by 10% then the percentage change in its curved surface area is :

(a) 2.5% increased

(b) 3.5% increased

(c) 2.5% decreased

(d) 3.5% decreased

12. Tickets for all but 100 seats in a 10,000 seat stadium were sold. Of the tickets sold, 20% were sold at half price and the remaining tickets were sold at the full price of Rs.20. The total revenue from the ticket sales, (in Rs.) was :

(a) 158400

(b) 178200

(c) 180000

(d) 198000

13. A number is divided into two parts in such a way that 80% of 1st part is 3 more than 60% of 2 nd part and 80% of 2nd part is 6 more than 90% of the 1st part. Then the number is :

(a) 125

(b) 130

(c) 135

(d) 145

14. Bhuvnesh spends 30% of his salary on food and donates 3% in a Charitable Trust. He spends `Rs. 2,310 on these two items, then total salary for that month is:

(a) ₹6000

(b) ₹8000

(c) ₹9000

(d) ₹7000

15. The population of a town is 3,11,250. The ratio of women to men is 43 : 40. If there are 24% literate among women and 10% illiterate, among men, the total number of literate persons in the town is:

(a) 1,70,700

(b) 1,73,700

(c) 1,75,700

(d) 1,73,200

16. The value of a machine depreciates by 5% every year. If its present value is Rs.2,00,000, its value after 2 years will be:

(a) ₹1,80,500

(b) ₹1,99,000

(c) ₹1,80,000

(d) ₹2,10,000

17. In a big garden 60% of the trees are coconut trees. 25% of the number of coconut trees are mango trees and 20% of the number of mango trees are apple trees. If the number of apple trees in the garden is 1440 then find the total number of trees in the garden:

   (a) 48000

   (b) 50000

   (c) 51000

   (d) 45000

18. A dozen pairs of socks quoted at Rs.180 are available at a discount of 20%. How many pairs of socks can be bought for Rs.48 ?

   (a) 3 pairs

   (b) 4 pairs

   (c) 2 pairs

   (d) 5 pairs

19. If 50% of (P − Q) = 30% of (P +Q) and Q = x% of P, then the value of x is :

   (a) 30

   (b) 25

   (c) 20

   (d) 50

20. The price of a school bag and a shoe are in the ratio 7 : 5. The price of the school bag is Rs. 200 more than the price of the shoe. Then the price of the shoe is :

   (a) ₹200

   (b) ₹700

   (c) ₹500

   (d) ₹1200

21. The ratio of the number of boys and girls in a school is 2 : 3. If 25% of the boys and 30% of the girls are scholarship holders, the percentage of the school students who are not scholarship holders is :

(a) 72%

(b) 36%

(c) 54%

(d) 60%

22. One type of liquid contains 20% water and the second type of liquid contains 35% of water. A glass is filled with 10 part of first liquid and 4 parts of second liquid. The water in the new mixture in the glass is:

(a) 37%

(b) 46%

(c) 12 $\frac{1}{7}$ %

(d) 24 $\frac{2}{7}$ %

23. In what ratio must 25% of alcohol be mixed with 50% of alcohol to get a mixture of 40% strength alcohol ?

(a) 1:2

(b) 2:1

(c) 2:3

(d) 3:2

24. If the price of rice be raised by 25% the percent by which a householder must reduce his consumption of rice as not to increase his expenditure on rice is: (a) 22.5%

(b) 25.75%

(c) 25%

(d) 20%

25. Three sets of 40,50 and 60 students appeared for an examination   and the pass

percentage was 100., 90 and 80 respectively. The pass percentage of the whole set is:

(a) 88 ⅔ %

(b) 84 ⅔ %

(c) 88 ⅓ %

(d) 84 ⅓ %

ANSWER KEY

1. b	11. b	21. a
2. b	12. b	22. d
3. a	13. c	23. c
4. a	14. d	24. d
5. d	15. b	25. a
6. b	16. a	
7. b	17. a	
8. a	18. b	
9. d	19. b	
10. a	20. c	