Worksheet

1. Choose the correct option.
   a. 12% of 600 is
      i. 72   ii. 50   iii. 720   iv. 78
   b. What per cent is 9 of 36?
      i. 20%   ii. 4%   iii. 25%   iv. 400%
   c. 8% of a number is 56, find the number.
      i. 700   ii. 70   iii. 7   iv. 448
   d. Convert $\frac{3}{4}$ into percentage.
      i. 5%   ii. 25%   iii. 75%   iv. 20%

2. Fill in the blanks.
   a. 6% of _____ is 12.
   b. _____ % of 150 is 75.
   c. 15 × _____ is equal to 25% of 960.
   d. 4% of (15% of 300) is _____.

3. Convert the following decimals into percentage.
   a. 0.6   b. 1.25   c. 0.45   d. 0.09

4. Find the value of x in each of the following.
   a. 12% of x = 12   b. 14% of x = 560   c. 20% of x = 95

5. What per cent of:
   a. 250 is 75   b. 30 is 12   c. 52 is 13   d. 40 is 18

6. Find:
   a. 15% of a number whose 30% is 84.
   b. 8% of a number whose 15% is 120.

7. The price of LPG has been increased to 20%. If the increased price is ₹ 30 per kg, what was the original price per kg?

8. In an examination there are 3 papers of mathematics each of 100 marks. A boy secures 60% in the first paper and 65% in the second paper. In order to secure 70% in the aggregate, what percentage of marks he should secure in the third paper?

9. Water tax is increased by 20%, so its consumption is decreased by 20%. Find the increase or decrease percentage in the consumption.

10. Price of a litre of petrol is increased by 5%. By what per cent should the consumption of the petrol be reduced so that the expenditure is not increased?

11. In an examination, 42% candidates failed in one subject and 35% failed in another subject while 15% failed in both the subjects. If 1500 candidates appeared in the examination, then how many students passed in either subjects but not in both?

12. Neeraj spent 30% of his salary on food items and one-fourth of the remaining on house rent. If he saves ₹ 2500 per month, which is half of the balance after spending on food items and house rent, what is his monthly salary?

13. The price of an article dropped by 20%. By what percentage the price of an article be increased so that the original value remains the same.

14. The length and breadth of a square are increased by 20% and 25%, respectively. Find the percentage increase in the area of the resulting rectangle?

15. Nitesh scored 80 out of 100 in Science, 78 out of 100 in English, 94 out of 100 in Mathematics. Find his aggregate percentage of marks.

Answers to Worksheet

1. a. i   b. iii   c. i   d. iii

2. a. 200   b. 50   c. 16   d. 1.8

3. a. 60%   b. 125%   c. 45%   d. 9%

4. a. 100   b. 4000   c. 475

5. a. 30%   b. 40%   c. 25%   d. 45%

6. a. 42   b. 64   7. ₹ 25   8. 85%

9. 4% decrease   10. $4\frac{16}{21}$%   11. 705   12. ₹ 9523.81 (approx)

13. 25%   14. 50%   15. 84%