

Chapter—8

Comparing Quantities

- Convert the following ratios to percentage:
(i) 9 : 25 (ii) 12 : 5
- Which is largest among $6\frac{2}{3}\%$, $\frac{3}{20}$ and 0.14?
- Convert the following percentages to fractions and ratios:
(i) 2.5% (ii) 0.25% (iii) 125%
- If 23% of a is 69, then find a.
- x is 5% of y , y is 24% of z . If $x = 480$, find the values of y and z .
- A number is increased by 10% and then it is decreased by 10%. Find the net increase or decrease percent.
- If the cost of 18 mangoes is the same as the selling price of 16 mangoes, find the gain percent.
- If $x\%$ of 250 + 25% of 68 = 67, then the value of x is.....
- Tick (\checkmark) the correct answer in each of the following:
(i) 5% of a number is 9. The number is
(A) 45 (B) 90 (C) 135 (D) 180
(ii) If $(180\% \text{ of } x) \div 2 = 540$, then x is.....
(A) 400 (B) 480 (C) 600 (D) 560
(iii) What percent of 10 kg is 250 g ?
(A) 25% (B) 5% (C) 10% (D) 2.5%
(iv) A period of 4 hours 30 min is what percent of a day?
(A) $18\frac{3}{4}\%$ (B) 20% (C) $16\frac{2}{3}\%$ (D) 19%
(v) The price of a watch including 10% VAT is ₹ 825. What is its basic price?
(A) ₹ 742.50 (B) ₹ 775 (C) ₹ 750 (D) ₹ 907.50
- Write True or False for each of the following :
(i) $SP = \frac{(100 + \text{loss}\%)}{100} \times CP$.
(ii) Gain is calculated on the selling price.
(iii) 6 hours = 25% of a day.
(iv) 6% of 8 is 48.

11. Fill in the blanks:

(i) $7\frac{1}{2}\%$ of ₹ 1200 =

(ii) 240 ml is% of 3l.

(iii) If $x\%$ of 35 is 42, then $x = \dots\dots$

(iv) $\frac{9}{5} = \dots\dots\%$

(v) 120 =% of 80

12. Find the single discount equivalent to two successive discounts of 20% and 10%.

13. Find the principal, if the compound interest compounded annually at the rate of 10% per annum for three years is ₹ 331.

14. On selling 100 pens, a man gains the selling price of 20 pens. Find the gain percent.

15. Find the difference between the compound interest and simple interest on ₹ 5000 for 2 years at 9% per annum.