Assignment - 7

Percentages

1. $\dfrac{7}{9}\%$ **of a number is 1400. Find the number.**

Solution:

$$\frac{7}{9}\% \text{ of } x = 1400$$

$$\Rightarrow \quad \frac{7}{900} \times x = 1400$$

$$\Rightarrow \quad x = \frac{\overset{200}{\cancel{1400}} \times 900}{\cancel{7}} = 180000$$

∴ The number is 180000

2. A student is able to score 72 out of 80 in an exam. What is his percentage of marks?

Solution:

Mark scored out of 80 = 72

In % $\dfrac{\overset{9}{\cancel{72}}}{\cancel{80}} \times 10\cancel{0} = 90\%$

Student's percentage of marks $= 90\%$

3. **A child spends 7 hours a day at school. What percent of day is the child in school?**

Solution:

$$7 \text{ hours a day} = \frac{7}{24}$$

$$\text{In } \% \quad = \frac{7}{24} \times 100 = 29\frac{1}{6}\%$$

$$= 29.166\%$$

A child spends 29.1666% of a day at school.

4. **Price of a sugar was ₹ 45 and it increased to ₹ 52. What is the % of increase in the price?**

Solution:

Price of a sugar $\quad = ₹ 45$

Increased price $\quad = ₹ 52$

$\therefore \quad$ Increase $\quad = ₹ 7$

$\therefore \quad$ % of increase $\quad = \frac{7}{45} \times 100$

$\therefore \quad$ The % of increase in the price of sugar $= 15.55\%$