

## Chapter- 13

# Percentage

**STUDY NOTES**

This lesson will help you to:

- Understand the meaning and use of percentage.
- Calculate percentage out of given data.
- Convert fractions to percentage and vice versa
- Convert decimal to percentage and vice versa

**Percentage:**

The word *percent* means “per cent”, per hundred. It is the fraction whose denominator is 100.

6 % means 6 out of 100 or  $\frac{6}{100}$



**This is the symbol of percentage.**

- **Understanding percentage will help us with other mathematical concepts like Profit & loss, Discount, Simple Interest etc.**

$$80\% = \frac{80}{100}$$

**Converting Percentage to fraction:**  
(As the denominator should be 100)

$$37\% = .37$$

**Converting Percentage to decimal:**  
(As the denominator is 100)

### CALCULATING PERCENTAGE:- [ MULTIPLYING 100 ]

✓ Out of Fractions:  $\frac{3}{4} \times 100 = 75\%$

✓ Out of decimal :  $0.8965 = 0.8965 \times 100 = 89.65\%$

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$$\text{Percentage} = \frac{\text{parts}}{\text{whole}} \times 100\%$$

parts sold = 17  
total parts = 40

$$\text{percent sold} = \frac{17}{40} = .425 \times 100\% = 42.5\%$$

### POINTS TO REMEMBER:

- ✧ Percentages are fractions with 100 as denominators.
- ✧ A fraction or decimal can be represented as percentage by multiplying 100.
- ✧ % is symbol used for percentage.
- ✧ To convert a percentage to fraction or decimal we can divide the given numbers by 100.

### MIND MAP

