



Provincial Department Of Education – Sabaragamuwa  
WEEKLY SCHOOL

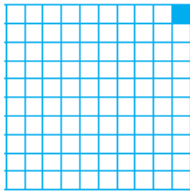
Subject : Mathematics

Grade 7

Week : 03<sup>rd</sup> of 3<sup>rd</sup> Term

**Unit 22 – Percentage (1)**

➤ **Percentage**



Considering it as one unit, the grid is divided into 100 small squares. Of these squares, exactly one is coloured. That is,  $\frac{1}{100}$  of the entire grid is coloured. As a percentage, this is 1%. This is read as “**one percent**”. This indicates a portion of a unit as a percentage.

- % is known as the **percentage sign**

➤ **representing fractions as percentages**

Write  $\frac{3}{10}$  as a percentage.

As  $100 \div 10 = 10$ , let us multiply the denominator and the numerator by 10.

$$\frac{3}{10} = \frac{3 \times 10}{10 \times 10} = \frac{30}{100} = 30\%$$

Write  $\frac{5}{4}$  as a percentage.

As  $100 \div 4 = 25$ , let us multiply the denominator and the numerator of  $\frac{5}{4}$  by 25.

$$\frac{5}{4} = \frac{5 \times 25}{4 \times 25} = \frac{125}{100} = 125\%$$

Of the 25 students in a class, 13 are girls. Represent the number of girls, as a percentage of all the students in the class.

The number of girls, as a fraction of all the students in the class is  $\frac{13}{25}$ .

$$\frac{13}{25} = \frac{13 \times 4}{25 \times 4} = \frac{52}{100} = 52\%$$

∴ the number of girls, as a percentage of all the students in the class is 52%.

➤ **Representing decimal numbers as percentages**



**Activity 1**

Copy the table given below in your exercise book and fill in the blanks.

Decimal number	The number as a fraction	The number as a fraction having 100 as the denominator	The number as a percentage of the original amount
0.5	$\frac{5}{10}$	$\frac{5 \times 10}{10 \times 10} = \frac{50}{100}$	50%
2.3	$\frac{23}{10}$	.....	.....
0.25	$\frac{25}{100}$	.....	25%
1.75	.....	.....	.....

➤ **Do all the exercises in your text book 22.1, 22.2 and 22.3**