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Subject: - Mathematics

Week: - 15 (1<sup>st</sup> Term)

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Embilipitiya

Grade: - 8

(Learning Time 2 Hours )

Mass

9.1 Units used to measure mass

- Recall what you have learnt in Grade 6 and 7 about mass.
- In our day to day life milligram (mg), gram (g), and kilogram (kg) are units used to measure mass.
- In order to measure a heavy mass like a lorry, the unit metric ton is used.
- One metric ton is equal to a thousand kilograms

$$1000 \text{ mg} = 1 \text{ g}$$

$$1000 \text{ g} = 1 \text{ kg}$$

$$1000 \text{ kg} = 1 \text{ t}$$

9.5 Multiplication of a mass expressed in metric tons and kilograms by a number

➤ Let us simplify  $5 \text{ t } 120 \text{ kg} \times 12$ .

**Method I**

t	kg
5	120
$\times$	12
61	440

First let us multiply 120 kg by 12.

$$120 \text{ kg} \times 12 = 1440 \text{ kg} = 1 \text{ t } 440 \text{ kg}$$

Now let us multiply 5 t by 12.

$$5 \text{ t} \times 12 = 60 \text{ t}$$

$$\therefore 5 \text{ t } 120 \text{ kg} \times 12 = 60 \text{ t} + 1 \text{ t } 440 \text{ kg}$$

$$= 60 \text{ t} + 1 \text{ t} + 440 \text{ kg}$$

$$= 61 \text{ t } 440 \text{ kg}$$

$$5 \text{ t } 120 \text{ kg} \times 12 = 61 \text{ t } 440 \text{ kg}$$

- By studying the pages no: 106, 107 and 108, do the exercise 9.4

9.6 Division of a mass by a whole number

- By studying the examples in pages no: 109, 110 and 111, do the exercise 9.5