

◦ MONTH : DECEMBER

SESSION : 22

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 16

CHAPTER NAME : MEASUREMENT

SUB-TOPIC : MEASUREMENT OF MASS AND CONVERSION.

EXERCISE- 16 A

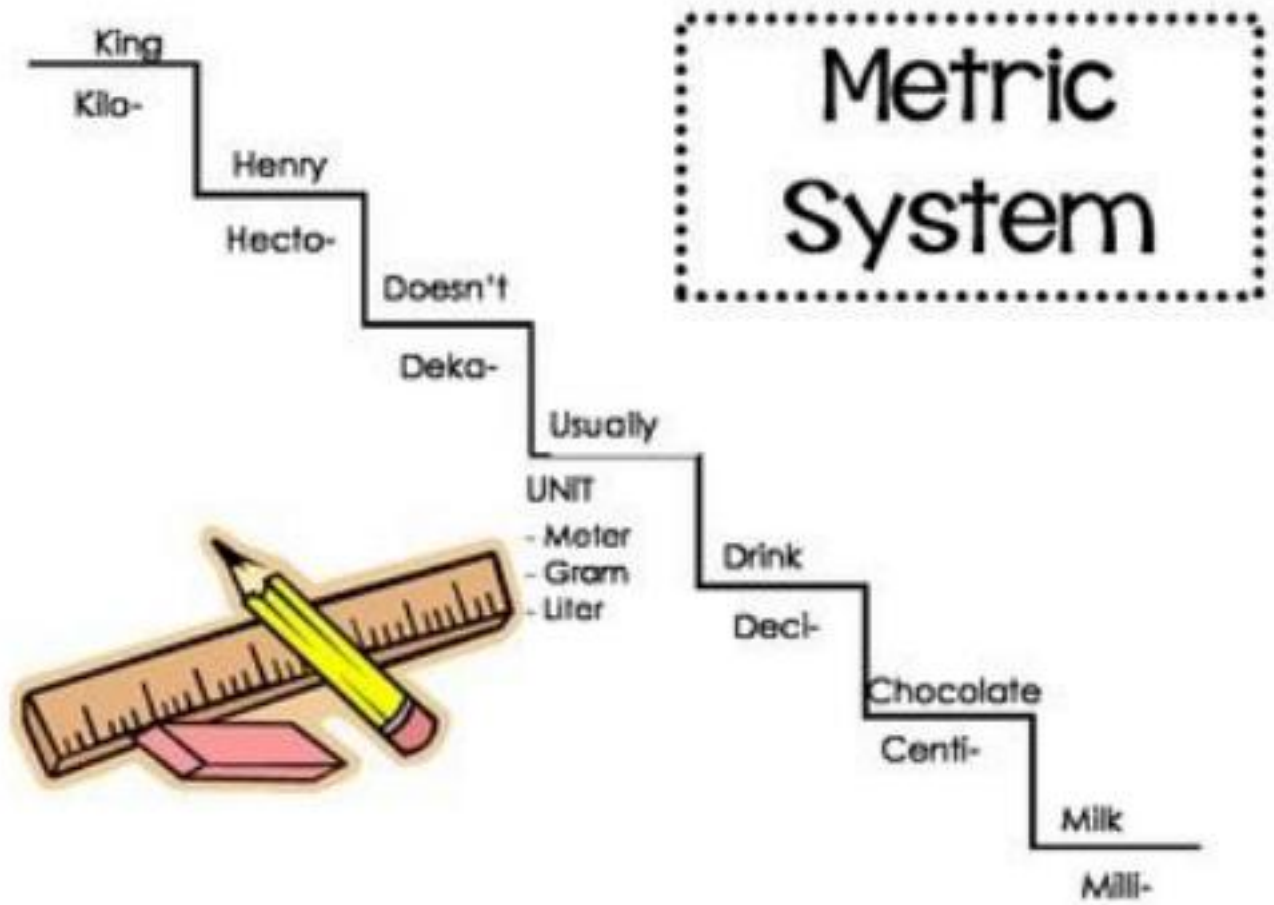
CHANGING YOUR TOMORROW

LEARNING OBJECTIVE :

Enable learners :

- **To identify the units for measuring mass.**
- **To get a clear idea about conversion of units of measurement.**

RE-CAP



Conversion of mass

We use different units to measure different mass or weight.

Ex: We use milligram and gram to measure less quantities and kg to measure heavy or more quantities.

The standard unit of measuring mass is **GRAM**.

POINTS TO REMEMBER

1 Kg = 1000 g

1 Hectogram = 100 g

1 decagram = 10 g

GRAM

10 decigram = 1 g

100 centigram = 1 g

1000 milligram = 1 g

Measuring Mass



POINTS TO REMEMBER

1 Kg	= 1000 g
1 Hectogram	= 100 g
1 decagram	= 10 g

GRAM

10 decigram	= 1 g
100 centigram	= 1 g
1000 milligram	= 1 g

Conversion of mass

I. Convert 7285 g into dag, hg and kg.

$$10 \text{ g} = 1 \text{ dag}$$

$$7285 \text{ g} = \frac{7285}{10} = 728.5 \text{ dag}$$

$$100 \text{ g} = 1 \text{ hg}$$

$$7285 \text{ g} = \frac{7285}{100}$$
$$= 72.85 \text{ hg}$$

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

$$7285 \text{ g} = \frac{7285}{1000}$$
$$= 7.285 \text{ kg}$$

Measuring Mass



EXERCISE 16 A

5. Express in kg, hg , dag and g

- a. $3.127 \text{ kg} = 3 \text{ kg } 1 \text{ hg } 2 \text{ dag } 7 \text{ g}.$
- b. $16.485 \text{ kg} = 16 \text{ kg } 4 \text{ hg } 8 \text{ dag } 5 \text{ g}$
- c. $0.758 \text{ kg} = 7 \text{ hg } 5 \text{ dag } 8 \text{ g}$
- d. $0.48 \text{ kg} = 4 \text{ hg } 8 \text{ dag}$

6. Using decimal express in kg

- a. $2 \text{ kg } 2 \text{ hg } 7 \text{ dag } 2 \text{ g} = 2.272 \text{ kg}$
- b. $5 \text{ kg } 5 \text{ hg } 1 \text{ dag } 5 \text{ g} = 5.515 \text{ kg}$
- c. $7 \text{ kg } 2 \text{ dag } 7 \text{ g} = 7.027 \text{ kg}$
- d. $5 \text{ hg } 3 \text{ g} = 0.503 \text{ g}$

Measuring Mass



EXERCISE 16 A

7. Express in gm, dg , cg and mg

- a. 3.164 g = **3 gm 1 dg 6cg 4mg.**
- b. 5.750 g = **5 gm 7 dg 5cg**
- c. 0.5 g = **5 dg**
- d. 0.185 g = **1 dg 8 cg 5mg**

8. Using decimal express in grams

- a. 6 g 7 dg 2 mg = **6.702 g**
- b. 2 g 2 dg 7 cg 1mg = **2.271 g**
- c. 5 dg 7 cg 2 mg = **0.572 g**
- d. 6 cg 6 mg = **0.066 g**

Measuring Mass





Complete Exercise 16 A the 1st four of q.no. 5 to 8

The logo for 'Learning Outcomes' features the words 'Learning' and 'Outcomes' in a large, bold, black font with a yellow outline. Above the letter 'i' in 'Learning' is a small red apple with a green leaf. To the left of the word 'Outcomes' is a blue graduation cap with a tassel.

Learning Outcomes

Students are able:

- To identify the units for measuring mass.
- To get a clear idea about conversion of units of measurement.

THANKING YOU
ODM EDUCATIONAL GROUP