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## P.4 MATHS LESSON NOTES WEEK 4 FEBRUARY

### LESSON 1

**TOPIC** : **MEASURES (Capacity)**  
**SUBTOPIC** : **Half and quarter litres**

**CONTENT** : Example

(a) How many half litre bottles of water can fill a jerry can of 10 litres?  
 $1 \text{ litre} = 2 \text{ half litres}$   
 $10 \text{ litres} = 10 \times 2 \text{ half litres}$   
 $= 20 \text{ half litres.}$

(b) How many  $\frac{1}{4}$  litre bottles of milk can fill a jerrycan of 20 litres?  
 $1 \text{ litre} = 4 \text{ quarter litres}$   
 $20 \text{ litres} = (4 \times 20) \text{ quarter litres}$   
 $= 80 \text{ quarter litres.}$

### ACTIVITY:

1. How many half litre bottles can fill a container of;

(a) 5 litres (b) 3 litres (c) 50 litres (d) 20 litres (e) 40 litres

2. How many quarter litre (-) containers can fill a big container of;

(a) 2 litres (b) 5 litres (c) 1 litres (d) 25 litres (e) 10 litres

## LESSON 2

**TOPIC** : **MEASURES (Capacity)**

**SUBTOPIC** : **Word problems:**

### **Example 1.**

Mother bought 4 half litres of milk. How much milk is that in litres?

2 half litres make 1 litre

4 half litres make  $4 \div 2 = 2$  litres

### **Example 2.**

How many half litre cups of water can be got from a jug of 3 litres?

1 litre makes 2 half litres

3 litres make  $3 \times 2 = 6$  half litres.

### **ACTIVITY:**

1. A car uses 4 litres of fuel every day. How much fuel will the car use in 2 days
2. Magoola bought a drum which holds 500 litres of water. If he fills it with 360 litres of water, what amount of water is still needed to fill the drum?
3. Sara has a water jar which contains 4 litres of water. how many half litre cups will she need to fill the water jar?
4. A jerrican contains 20 litres of water. We use 2 jerricans of water at home each day. How much water is that in litres?
5. A healthy person is expected to drink 3 litres of water everyday. How many half litre cups of water will he need for a day?

### LESSON 3

TOPIC : MASS (Measures )

SUBTOPIC : Changing kilograms to grams

CONTENT : Example

(a) Change 4kg into grams  
 $1\text{kg} = 1000\text{g}$   
 $4\text{kg} = 4 \times 1000 = 4000\text{g}$

(b) Change  $\frac{4}{5}$  kg into grams

$$\begin{aligned} 1\text{kg} &= 1000\text{g} \\ \frac{4}{5}\text{kg} &= \frac{4}{5} \times \overset{200}{\cancel{1000}}\text{g} \\ &= \underline{\underline{800\text{g}}} \end{aligned}$$

#### ACTIVITY:

Convert these kilograms to grams

1. 3 Kg
2. 5 Kg
3. 2 Kg
4. 2 – Kg
5. 6 Kg
6. 1 – Kg
7. 6 – Kg
8. 10 Kg

### LESSON 4

TOPIC : MASS (Measures )

SUBTOPIC : Changing grams to kilograms

CONTENT : Example

(a) Change 2000g into kg  
 $1000\text{g} = 1\text{kg}$   
 $2000\text{g} = \frac{2000\text{g}}{1000\text{g}} \text{Kg}$

(b) Change 4500g into kg.  
 $1000\text{g} = 1\text{kg}$

$$\begin{aligned} 4500\text{g} &= \frac{4500}{1000} = \frac{45}{10} \\ &= 4.5\text{kg} \text{ or } 4\frac{1}{2}\text{kg}. \end{aligned}$$

$$= \underline{2\text{kg}}$$

**ACTIVITY:**

**Convert the following to kilograms**

1. 2000g      2. 6000g      3. 9000g      4. 10,000g

5. 7000g      6. 5000g      7. 3500g      8. 4500g

**LESSON 5**

**TOPIC : MASS (Measures )**

**SUBTOPIC : Word problem**

**CONTENT : Example**

1. The mass of a mature turkey is 8000g. Express this mass in Kg.

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

$$\begin{array}{r} 8 \\ \text{So } 8000\text{g} = \underline{1000} \overline{)8000} \\ \underline{-8000} \\ \text{---} \\ = 8 \text{ Kg} \end{array}$$

2. Find the total mass of 4 girls weighing 48 kg, 35 kg, 42 kg and 52 kg respectively.

$$= 48\text{kg} + 35\text{kg} + 42 \text{ kg} + 52 \text{ kg}$$

$$= 177 \text{ kg}$$

**ACTIVITY:**

1. A bus weighs 1000 kg. The passengers weigh 950 kg. What is the total mass?
2. A supermarket ordered 200 bags of flour each weighing 5 kg. What is the total mass of the flour.
3. Find the difference between 3500 kg and 2950 kg.
4. Aunt Sarah bought a half kg of ground nuts. How many grams are these?
5. There are 20,000g of beans left in the store. What is that amount in kg?