Real-Life Mathematics 2

Quarter 4

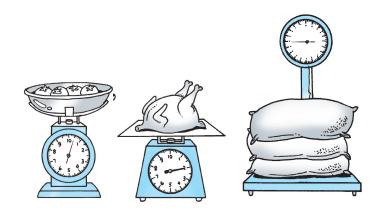
Most Essential Learning Competency (MELC)	Code
measure objects using appropriate measuring tools	Week 3; uncoded MELC
and unit of length in m or cm	

Note: MELC has corresponding lessons in the book and, thus, would be met and developed in the learners. Please refer to C8 L5 (pp. 418–423) and L7 (pp. 430–435).

Most Essential Learning Competency (MELC)	Code
measure objects using appropriate measuring tools	Week 5; uncoded MELC
and measuring units in g or kg	

Chapter 9 Mass, Capacity, and Area

Lesson 1 The Kilogram and the Gram



The **weight** of an object tells how heavy it is. It is measured by using a weighing scale. Have you ever been to market with your parents? What kinds of weighing scales do you see in the marketplace and other stores?

Let Us Discover

The amount of material in an object is called its **mass**. It is measured in terms of the weight of an object. The **kilogram** is a unit of mass that is used to measure the weight of an object. It can be written in short form as **kg**.

A weighing scale is used to measure the weight of objects. It has a pointer that shows how heavy an object is. Look at the examples below.



The whole chicken

weighs 1 kg. It balances

the 1 kg weight in the

balance scale.

Each of the watermelons weighs 1 kg.

The two watermelons weigh 2 kg.

The **gram** is another unit of mass. It is used to measure light materials. It is written in short form as **g**.



Below are examples of objects that can be measured using the

unit gram.







Can you name other light objects that can be measured in grams?

Note that a gram is a part of a kilogram. How many grams are there in a kilogram? There are 1000 grams in a kilogram. In symbols, it can be written this way

1000 g = 1 kg.

Look at how some common things are bought and measured in grams and kilograms.

Measured in grams	Measured in kilograms
800 200	Scale Scale
pieces of camote	whole watermelon
600 400 100 100 100 100 100 100 100 100 1	SCALE SALE SALE SALE SALE SALE SALE SALE S
slice of meat	2 big fish
000 good good good good good good good g	Scale
piece of cabbage	mangoes
100 100 100 100 100 100 100 100 100 100	Scale
onions	slice of ham

Let Us Talk About It

- What is mass?
- What are the common units of measure for mass?
- When weighing objects, when do you use kilogram? When do you use gram?
- How many grams are there in a kilogram?

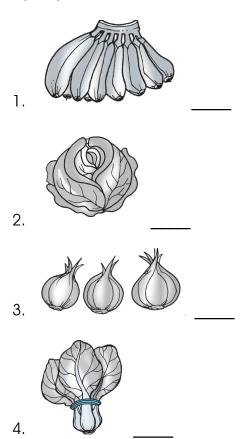
Let Us Remember

- Mass is the amount of material in an object. You measure mass in terms of the weight of an object using a weighing scale.
- The common units of measure for mass are the kilogram (kg) and the gram (g).
- The kilogram is used for weighing heavy objects. The gram is used for light objects.
- There are 1000 grams in 1 kilogram.

Let Us Practice

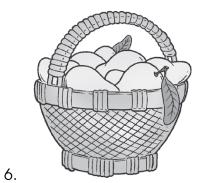
Get Ready

Tell the appropriate unit of mass for measuring the weight of each object. Write **kg** or **g** on the line.



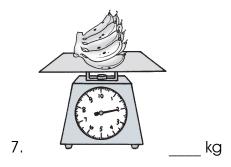


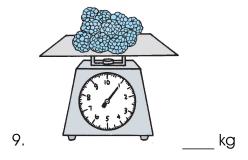
5.

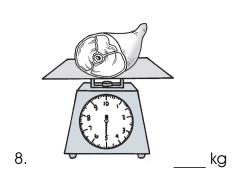


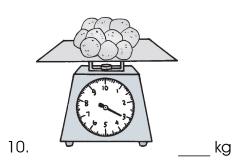
Work Together

Write the weight in kilograms.









Circle the letter of the more reasonable mass for each object.

11.a table lamp

- a. 2 g
- b. 2 kg

- 12.a rocking chair
- a. 19 g
- b. 12 kg

- 13.a picture frame
- a. 120 g
- b. 150 kg

- 14.a basket full of fruits
- a. 4 g
- b. 4 kg

15.a ripe mango

- a. 35 g
- b. 35 kg

Work Alone

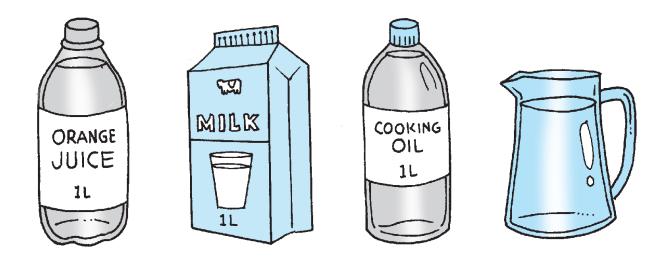
	Find each of the fo	llowinç	g objects at home. Use a weighing scale to measure
the	e weight of each object	in gro	ams.
16	.four eggs		_9
17	.two tomatoes		_9
18	a pack of chips		_9
19	.a pair of rubber shoes		_9
20	.a wall clock		_9
	Look for each object	ct at h	nome. Use a weighing scale to measure the weight of
ea	ch object in kilograms.		
21	a large bag of rice		_kg
22	.a bundle of eggplants		_kg
23	a big bottle of alcohol		_kg
24	.a puppy		_kg
25	.a hardbound book		_ kg
Le	t Us Answer		
	Read and solve ea	ch pro	oblem. Write the complete answer on the line.
1.	Nena needs 3 kg of ch	nicken	for the adobo she will cook. She also wants to buy 2 kg
	of beef for the beefste	ak. Hc	ow many kilograms of meat does Nena need in all?
2.	Lita weighs 40 kg. Her s	sister is	s 15 kg heavier. What is her sister's weight?

3.	Mary bought 300 g of grapes and 275 g of oranges. What was the total mass of
	the fruits she bought?
4.	Mr. Austria bought 500 g of apples for his children. The next day, he used 250 g of
	the apples to make apple shake. How many grams of apples did he have left?

Most Essential Learning Competency (MELC)	Code
measure objects using appropriate measuring tools in	Week 6; M2ME-IVf-33
mL or L	

Chapter 9 Mass, Capacity, and Area

Lesson 5 The Liter and the Milliliter



Look at the containers. Where do you usually see them? The containers have different shapes. But each of them holds the same amount of liquid.

The bottle holds a liter of juice while the carton contains a liter of milk. What do the other containers hold? Can you name other objects that hold a liter of liquids?

Let Us Discover

You have already learned about some of the standard units of measure. These include centimeter and meter for length and gram and kilogram for mass. These units of measure are accepted and used by people in many places.

The **liter** is another standard unit of measure. It can be written in short form as **L**. Liter is used to measure capacity.

Capacity is the amount of liquid or material that a container can hold. Different containers have different capacities. Some can hold more or less than the others.

The pitcher has a capacity of 1 L. The pail, on the other hand, can hold 2 L of water.



The **milliliter** is a measure of capacity smaller than the liter. It is written in short form as **mL**. What is the capacity of a milliliter?

Get a dropper. A dropper usually has 20 drops of water or about 1 mL. Note that there are 1000 mL in 1 L.



Look at other examples of objects that hold different kinds of liquid.

The containers of milk do not have the same capacity. A carton of milk usually holds 1 L of milk. The bottle and the glass can hold milk in milliliters.

Fruit juices are sold in different sizes of containers. The containers have the capacity to hold the drinks in liters or milliliters.



containers of milk



containers of fruit juice

Vinegar, soy sauce, cooking oil, various kinds of sauce, liquid cleansers, even bottled water are also sold in different sizes of containers. Can you tell the ones you can buy in liters and milliliters?

Let Us Talk About It

- What is capacity?
- What is the standard unit of measure for capacity?
- Which container hold more liquid, the one with greater capacity or less capacity?

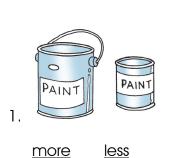
Let Us Remember

- Capacity is the amount of liquid materials a container can hold.
- The standard units of measure for capacity is the liter (L) and the milliliter (mL).
 There are 1000 mL in 1 L.
- The bigger the container, the greater is its capacity. The smaller the container, the lesser is its capacity.

Let Us Practice

Get Ready

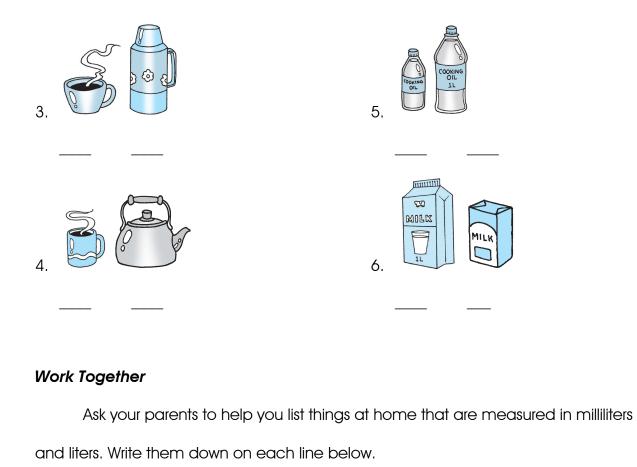
Compare each pair of objects below with the can that contains 1 L pineapple juice. Write **more** or **less** below each object. The first one has been done for you.





This Can Contains 1 L of Pineapple juice.





7. liter

8. milliliter

Work Alone
Complete each sentence. Write mL or L in the box.
9. A large can of kerosene holds 4.
10.A washing machine uses about 50 of water.
11.A glass holds about 150 of milk.
12.A ball point pen holds about 2 of ink.
13.A plant needs about 17 of liquid fertilizer.
14.A basin holds about 5 of water.
15. The aquarium holds about 20 of water.
Let Us Answer
Read and solve each problem. Write the complete answer on the line.
1. Pepito drinks one glass of milk each day. The glass holds 100 mL. How many
milliliters of milk does he drink in 4 days?
2. Mother mixed 500 mL each of orange juice and mango juice to make a fruit
punch. How many milliliters of fruit punch did she make?