Measurement Match

Choose the measuring system that fits each situation.

4.GM.2.7 "Determine and justify the best use of customary and metric measurements in a variety of situations (liquid volumes, mass vs. weight, temperatures above 0 (zero) degrees, and length)."

NAME _____ DATE _____

METRIC UNITS

Metric units include grams, centimeters, milliliters, and degrees Celsius. They are often used in science and on metric tools.

An aquarium holds 20 liters of water.

CUSTOMARY UNITS

Customary units include pounds, inches, gallons, and degrees Fahrenheit. They are common on U.S. tools, labels, and weather reports.

A tailor measures ribbon in yards.

1 SORT

8 items

For each numbered item, circle METRIC or CUSTOMARY, then pick two items and explain how you knew where each belongs.

1. A lab scale reports a stone's mass in grams. METRIC CUSTOMARY

2. A student measures a leaf's length in centimeters. METRIC CUSTOMARY

3. A U.S. grocery scale reports a melon's weight in pounds. METRIC CUSTOMARY

4. A scientist records the air temperature as 18 degrees Celsius. METRIC CUSTOMARY

5. A local U.S. weather report gives a high of 72 degrees Fahrenheit. METRIC CUSTOMARY

6. A carpenter measures a shelf's length in inches. METRIC CUSTOMARY

7. A nurse measures a liquid dose in milliliters. METRIC CUSTOMARY

8. A U.S. gas pump measures fuel in gallons. METRIC CUSTOMARY

2 PROVE IT

Explain your thinking

Pick two items from Part 1. For each one, tell how you knew where it belonged.

ITEM # _____ **HOW I KNEW** _____

ITEM # _____ **HOW I KNEW** _____

3 MAKE YOUR OWN

One of each

Part 3 MAKE YOUR OWN: Write one new measurement situation using a metric unit and one using a customary unit.

METRIC _____

CUSTOMARY _____

CHALLENGE

A lab needs to record the mass of a coin. Choose grams or pounds, and explain why your choice fits both the measurement and the setting.

ANSWER KEY

Measurement Match

GRADE 4 · 4.GM.2.7

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	A lab scale reports a stone's mass in grams.	**METRIC**	Grams are a metric unit of mass used in the lab.
2	A student measures a leaf's length in centimeters.	**METRIC**	Centimeters are a metric unit of length.
3	A U.S. grocery scale reports a melon's weight in pounds.	**CUSTOMARY**	Pounds are a customary unit used for weight at U.S. grocery stores.
4	A scientist records the air temperature as 18 degrees Celsius.	**METRIC**	Degrees Celsius are a metric temperature unit.
5	A local U.S. weather report gives a high of 72 degrees Fahrenheit.	**CUSTOMARY**	Degrees Fahrenheit are a customary temperature unit used in U.S. weather reports.
6	A carpenter measures a shelf's length in inches.	**CUSTOMARY**	Inches are a customary unit of length.
7	A nurse measures a liquid dose in milliliters.	**METRIC**	Milliliters are a metric unit of liquid volume.
8	A U.S. gas pump measures fuel in gallons.	**CUSTOMARY**	Gallons are a customary unit of liquid volume used at U.S. gas pumps.

PART 2 · PROVE IT

Accept any explanation that names the deciding feature from the rule box for the chosen item.

PART 3 · MAKE YOUR OWN (SAMPLE ANSWERS)

- **METRIC**: A biologist measures a beetle's length in millimeters.
- **CUSTOMARY**: A U.S. kitchen measures milk in cups.

Challenge: Grams fit because they measure mass and are a metric unit used in labs.

For Part 2, accept explanations that identify the unit and connect it to the correct system. For Part 3, accept new situations that use a unit from each system correctly.