

Unit Size Detectives

Compare measurement units in customary and metric systems.

GRADE 4 • TEKS 4.8.A

4.8.A "identify relative sizes of measurement units within the customary and metric systems;"

NAME _____

DATE _____

SPOT THE BIGGER UNIT

Units in the same measurement system can be small or large. A larger unit measures a greater length, weight, or amount of liquid than a smaller unit.

WORKED EXAMPLE

Which customary capacity unit is larger, a gallon or a quart?

1. Both units measure liquid in the customary system.
2. A gallon holds more liquid than a quart.
3. Choose gallon.

Answer: gallon

PRACTICE 6 problems

- 1** Which customary length unit is larger, an inch or a foot?

ANSWER _____

- 2** Which customary capacity unit is smaller, a cup or a pint?

ANSWER _____

- 3** Which metric length unit is larger, a centimeter or a meter?

ANSWER _____

- 4** Which metric length unit is the smallest: millimeter, centimeter, or meter?

ANSWER _____

- 5** Put these customary length units in order from largest to smallest: yard, inch, foot.

ANSWER _____

- 6** Which metric mass unit is larger, a gram or a kilogram?

ANSWER _____

APPLY IT Show your work

- 1** Jalen is measuring the length of a skateboard ramp. He needs a customary length unit that is larger than an inch but smaller than a yard. Which unit should he use?

WORK SPACE

ANSWER _____

- 2** The science club labels three plant-height charts with these metric units: millimeter, centimeter, and meter. Put the units in order from smallest to largest.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A student says a foot is smaller than an inch because the word foot has fewer letters. Is the student correct? Use the customary length units inch, foot, and yard in your explanation.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Which customary length unit is larger, an inch or a foot?	foot
2	Which customary capacity unit is smaller, a cup or a pint?	cup
3	Which metric length unit is larger, a centimeter or a meter?	meter
4	Which metric length unit is the smallest: millimeter, centimeter, or meter?	millimeter
5	Put these customary length units in order from largest to smallest: yard, inch, foot.	yard, foot, inch
6	Which metric mass unit is larger, a gram or a kilogram?	kilogram

PART 2 • APPLY IT

1. **foot** A foot is larger than an inch and smaller than a yard.
2. **millimeter, centimeter, meter** A millimeter is the smallest unit, followed by a centimeter. A meter is the largest unit.

CHALLENGE

No. An inch is smaller than a foot, and a foot is smaller than a yard, so a foot is larger than an inch.

Accept singular or plural unit names when they match the correct unit. For ordered lists, accept the correct sequence with commas, arrows, or words such as largest to smallest.