

Unit Size Clues

Measure one object with two different units.

GRADE 2 • 2.MD.A.2

CCSS.Math.Content.2.MD.A.2 "Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen."

NAME _____

DATE _____

THE BIG IDEA

Measure the same object with two kinds of units. A longer unit gives a smaller number. A shorter unit gives a bigger number.

WORKED EXAMPLE

A strip of paper is measured with paper clips and crayons.

1. The strip is 12 paper clips long.
2. The same strip is 3 crayons long.
3. There are fewer crayons, so a crayon is a longer unit.

Answer: The strip is 12 paper clips long and 3 crayons long. A crayon is longer than a paper clip.

PRACTICE 4 problems

- 1** A pencil is 10 pennies long and 2 erasers long. Which unit is longer?

ANSWER _____

- 2** A ribbon is 4 blocks long and 8 buttons long. Which unit is shorter?

ANSWER _____

- 3** A toy road is 6 craft sticks long and 18 cubes long. Why is the cube number bigger?

ANSWER _____

- 4** A cat tunnel is 5 spoons long and 15 linking cubes long. Write both measurements. Then tell which unit is longer.

ANSWER _____

APPLY IT Show your work

- 1** Zoe measures her doll bed. It is 7 markers long and 14 snap cubes long. Which unit is longer? Explain.

WORK SPACE

ANSWER _____

- 2** Leo measures a hamster path. It is 9 toy cars long and 27 buttons long. Which unit is shorter? Explain.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A game board is 4 blocks long and 16 cubes long. Sam says cubes are longer because 16 is bigger. Is Sam right? Explain.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A pencil is 10 pennies long and 2 erasers long. Which unit is longer?	erasers
2	A ribbon is 4 blocks long and 8 buttons long. Which unit is shorter?	buttons
3	A toy road is 6 craft sticks long and 18 cubes long. Why is the cube number bigger?	Cubes are shorter units than craft sticks.
4	A cat tunnel is 5 spoons long and 15 linking cubes long. Write both measurements. Then tell which unit is longer.	5 spoons long and 15 linking cubes long. A spoon is longer than a linking cube.

PART 2 • APPLY IT

1. **Markers are longer. It takes fewer markers than snap cubes to measure the doll bed.** Compare the two measurements of the same doll bed. The smaller number, 7, uses the longer unit.
2. **Buttons are shorter. It takes more buttons than toy cars to measure the hamster path.** Compare the two measurements of the same path. The bigger number, 27, uses the shorter unit.

CHALLENGE

No. Cubes are shorter because it takes more cubes to measure the same game board. Blocks are longer.

Accept answers that clearly state that fewer units means a longer unit and more units means a shorter unit. Accept singular or plural unit names when the meaning is clear.