LESSON MAKER PRO

Measure It Yourself

Use equal units like a ruler.

GRADE 2 · 2.MDR.5.1

2.MDR.5.1 "Construct simple measuring instruments using unit models. Compare unit models to rulers."

NAME _____ DATE _____

MAKE A UNIT STRIP

Make a measuring strip by placing equal units end to end with no gaps or overlaps. Count the units, then compare the end of your strip with the marks on a ruler.

WORKED EXAMPLE

A toy train reaches the end of this strip: [□][□][□][□][□][□][□]. How long is the train?

1. The squares are equal size.
2. There are 7 squares in the strip.
3. The train reaches the end of the strip.

Answer: 7 squares long

PRACTICE 4 problems

1 A toy car reaches the end of [□][□][□]. How long is the car?

ANSWER _____

2 A photo is as long as 4 one-inch tiles. The ruler also shows 4 inches. How many tiles long is the photo?

ANSWER _____

3 A crayon reaches the end of [□][□][□][□][□]. How long is the crayon?

ANSWER _____

4 Omar uses 2 equal blocks to measure a pet toy, but there is a gap between the blocks. Can his measure be correct?

ANSWER _____

APPLY IT Show your work

1 Zuri makes a strip with 8 equal squares. Her marker reaches the end of the strip. How long is the marker?

WORK SPACE

ANSWER _____

2 Nico measures a caterpillar picture with 9 one-inch tiles. A ruler shows 9 inches. Do the measures agree?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A hamster tunnel is 10 small cubes long or 5 big cubes long. Which cube is longer? Explain.

WORK SPACE AND ANSWER

ANSWER KEY

Measure It Yourself

GRADE 2 · 2.MDR.5.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A toy car reaches the end of [□][□][□]. How long is the car?	**3 squares long**
2	A photo is as long as 4 one-inch tiles. The ruler also shows 4 inches. How many tiles long is the photo?	**4 tiles long**
3	A crayon reaches the end of [□][□][□][□][□]. How long is the crayon?	**5 squares long**
4	Omar uses 2 equal blocks to measure a pet toy, but there is a gap between the blocks. Can his measure be correct?	**No, the blocks must touch with no gaps.**

PART 2 · APPLY IT

1. **8 squares long** The marker reaches the end of a strip with 8 equal squares. Count 8 squares.
2. **Yes, both measures are 9 units long.** The tile strip shows 9 one-inch units, and the ruler shows 9 inches. The measures match.

CHALLENGE

The big cube is longer. It takes 5 big cubes but 10 small cubes to cover the same tunnel.

Accept "units" instead of "squares," "tiles," or "blocks" when the count is correct. For the challenge, accept any clear explanation that fewer equal units cover the same length when the units are bigger.