LESSON MAKER PRO

Big Units, Small Counts

Measure the same length in two unit sizes.

GRADE 2 · NY-2.MD.2

NY-2.MD.2 "Measure the length of an object twice, using different "length units" for the two measurements; describe how the two measurements relate to the size of the unit chosen."

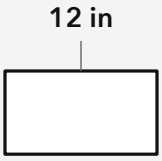
NAME _____ DATE _____

UNIT SIZE MATTERS

Measure the same object with two different units. Smaller units make a larger number. Larger units make a smaller number.

WORKED EXAMPLE

A banner is 12 inches long. It is also measured in feet.



1. The banner measures 12 inches.
2. 12 inches make 1 foot.
3. A foot is larger than an inch.

Answer: 12 inches = 1 foot. A foot is the larger unit.

PRACTICE 4 problems

1 A toy shelf is 2 feet long. It is ___ inches long.

ANSWER _____

2 A kite string is 36 inches long. It is ___ feet long.

ANSWER _____

3 A play mat is 4 feet long. It is also 48 inches long. Which measurement has more units?

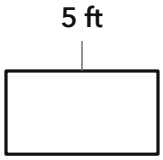
ANSWER _____

4 A garden border is 2 yards long. It is also 6 feet long. Which unit is larger, yards or feet?

ANSWER _____

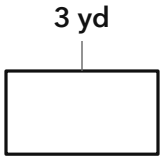
APPLY IT Show your work

1 Rina's robot track is 5 feet long. How many inches long is it? Which unit is smaller?



ANSWER _____

2 Jaden draws a chalk line that is 3 yards long. How many feet long is it? Which number is larger?



ANSWER _____

3 Measure it yourself. Teacher: provide a book with a straight edge longer than 10 cm and a ruler marked in centimeters and inches. Measure that SAME edge once in centimeters, then again in inches. Each time align the zero mark with one end and read the other end. Record the book/edge and both measurements to the nearest whole unit. Which unit is smaller? Why is its number larger? Ask your teacher to check both readings.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Look at the snack tables. Which table is longer? Explain how you know.

SNACK TABLES

Table	Length in inches	Length in feet
A	72	6
B	60	5

WORK SPACE AND ANSWER

ANSWER KEY

Big Units, Small Counts

GRADE 2 · NY-2.MD.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A toy shelf is 2 feet long. It is ___ inches long.	**24 inches**
2	A kite string is 36 inches long. It is ___ feet long.	**3 feet**
3	A play mat is 4 feet long. It is also 48 inches long. Which measurement has more units?	**48 inches**
4	A garden border is 2 yards long. It is also 6 feet long. Which unit is larger, yards or feet?	**yards**

PART 2 · APPLY IT

1. **60 inches. Inches are smaller.** Change 5 feet to inches. Since 1 foot equals 12 inches, 5 feet equals 60 inches.
2. **9 feet. 9 is larger.** Each yard equals 3 feet. Three yards equals 9 feet, and smaller foot units make the larger number.
3. **Answers depend on the book: record one observed length in centimeters and one independently observed length in inches. Centimeters are smaller units, so more of them cover the same edge.** Observe both measurements of the same edge, aligned at zero. Check the recorded unit labels and rounding. For example, an edge measuring 20 cm is about 8 inches to the nearest whole inch. Accept measurements matching the actual book within the stated rounding, not conversions without measuring.

CHALLENGE

Table A is longer. It is 72 inches, and Table B is 60 inches.

Accept equivalent statements that inches are smaller than feet and feet are smaller than yards. For the challenge, accept a comparison using either inches or feet.