LESSON MAKER PRO

Measure It Smaller

Change lengths to smaller units and record equal measurements.

GRADE 4 · 4.M.A.21.a

4.M.A.21.a "Within one system of units, express measurements of a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table."

NAME _____ DATE _____

FROM LARGE TO SMALL

To change a larger unit to a smaller unit, multiply by the number of smaller units in 1 larger unit. There are 3 feet in 1 yard and 12 inches in 1 foot. A two-column table keeps equal measurements in the same row.

WORKED EXAMPLE

Complete the table for 14 yards.

EQUAL LENGTHS

Yards	Feet
14	___

1. Each yard is 3 feet.
2. Multiply: 14 x 3 = 42.
3. Write 42 beside 14 in the table.

Answer: 14 yards = 42 feet

PRACTICE 6 problems

1 How many inches are in 5 feet?

ANSWER _____

2 Complete both empty cells in the table.

EQUAL LENGTHS

Yards	Feet
1	3
2	___
6	___

ANSWER _____

3 How many feet are in 8 yards?

ANSWER _____

4 Complete both empty cells in the table.

EQUAL LENGTHS

Feet	Inches
1	12
4	___
9	___

ANSWER _____

5 How many inches are in 10 feet?

ANSWER _____

6 How many feet are in 11 yards?

ANSWER _____

APPLY IT Show your work

1 A class makes a 13-foot banner for a school game. How many inches long is the banner? Complete the table.

BANNER LENGTH

Feet	Inches
1	12
13	___

ANSWER _____

2 Maya puts 15 yards of tape along a mini-golf path. How many feet of tape does she use? Complete the table.

TAPE LENGTH

Yards	Feet
1	3
15	___

ANSWER _____

CHALLENGE One step up

Two strips will make one long parade banner. One strip is 2 yards long, and the other is 5 feet long. What is their combined length in inches? Complete the table. Use the first row for the 2-yard strip and the second row for both strips together.

BANNER STRIPS

Feet	Inches
___	___
___	___

WORK SPACE AND ANSWER

ANSWER KEY

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	How many inches are in 5 feet?	**60 inches**
2	Complete both empty cells in the table.	**2 yards = 6 feet; 6 yards = 18 feet**
3	How many feet are in 8 yards?	**24 feet**
4	Complete both empty cells in the table.	**4 feet = 48 inches; 9 feet = 108 inches**
5	How many inches are in 10 feet?	**120 inches**
6	How many feet are in 11 yards?	**33 feet**

PART 2 · APPLY IT

1. **13 feet = 156 inches** Multiply 13 x 12 = 156. Write 156 in the Inches column beside 13.
2. **15 yards = 45 feet** Multiply 15 x 3 = 45. Write 45 in the Feet column beside 15.

CHALLENGE

First row: 6 feet, 72 inches. Second row: 11 feet, 132 inches. The combined length is 132 inches.

Accept correct values with or without unit names in table cells. For the challenge, 2 yards = 6 feet, and 6 feet + 5 feet = 11 feet.