

Unit Switch Lab

Use a conversion table to change units.

GRADE 4 • TEKS 4.8.B

4.8.B “convert measurements within the same measurement system, customary or metric, from a smaller unit into a larger unit or a larger unit into a smaller unit when given other equivalent measures represented in a table; and”

NAME _____

DATE _____

MATCH THE UNITS

Use the table to find how many smaller units are in one larger unit. Multiply when changing to a smaller unit. Divide when changing to a larger unit.

WORKED EXAMPLE

Use the table. Convert 5 yards to feet.

CONVERSION TABLE

Larger Unit	Equivalent Smaller Unit
1 yard	3 feet
1 foot	12 inches
1 meter	100 centimeters
1 liter	1,000 milliliters

1. Find the yard row in the table: 1 yard = 3 feet.
2. 5 yards = 5 groups of 3 feet.
3. 5 groups of 3 feet = 15 feet.

Answer: 15 feet

PRACTICE 6 problems

- 1** Use the conversion table. Convert 6 yards to feet.

ANSWER _____

- 2** Use the conversion table. Convert 8 feet to inches.

ANSWER _____

- 3** Use the conversion table. Convert 400 centimeters to meters.

ANSWER _____

- 4** Use the conversion table. Convert 9 liters to milliliters.

ANSWER _____

- 5** Use the conversion table. Convert 48 inches to feet.

ANSWER _____

- 6** Use the conversion table. Convert 8,000 milliliters to liters.

ANSWER _____

APPLY IT Show your work

- 1** A student council needs 7 yards of fabric for a school spirit banner. How many feet of fabric do they need?

WORK SPACE

ANSWER _____

- 2** For a science fair display, two bottles hold 2 liters and 2,500 milliliters of colored water. How many milliliters of water are in the bottles altogether?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A drama club has 2 yards of ribbon and 8 feet of ribbon. They tie the pieces end to end. How many feet of ribbon do they have? Explain your reasoning.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Use the conversion table. Convert 6 yards to feet.	18 feet
2	Use the conversion table. Convert 8 feet to inches.	96 inches
3	Use the conversion table. Convert 400 centimeters to meters.	4 meters
4	Use the conversion table. Convert 9 liters to milliliters.	9,000 milliliters
5	Use the conversion table. Convert 48 inches to feet.	4 feet
6	Use the conversion table. Convert 8,000 milliliters to liters.	8 liters

PART 2 • APPLY IT

1. **21 feet** Use 1 yard = 3 feet. Seven groups of 3 feet equal 21 feet.
2. **4,500 milliliters** Convert 2 liters to 2,000 milliliters. Then add 2,000 and 2,500.

CHALLENGE

14 feet. Convert 2 yards to 6 feet, then add 6 feet and 8 feet.

Accept correct unit labels and equivalent number formatting, such as 9000 or 9,000. For the challenge, accept an explanation that converts yards to feet before adding.