LESSON MAKER PRO

Unit Switch Lab

Change measurement units with multiplication or division.

GRADE 4 · MA.4.M.1.2

MA.4.M.1.2 "Convert within a single system of measurement using the units: yards, feet, inches; kilometers, meters, centimeters, millimeters; pounds, ounces; kilograms, grams; gallons, quarts, pints, cups; liter, milliliter; and hours, minutes..."

NAME _____ DATE _____

CHOOSE THE CONVERSION

Start with the unit you have and use a conversion fact to change to the unit you need. Multiply when you change a larger unit into a smaller unit. Divide when you change a smaller unit into a larger unit, then check whether your answer size makes sense.

WORKED EXAMPLE

Convert 7 feet to inches.

1. 1 foot = 12 inches.
2. 7 × 12 = 84.

Answer: 84 inches

PRACTICE 6 problems

1 Convert 5 yards to feet.

ANSWER _____

2 Convert 6,000 meters to kilometers.

ANSWER _____

3 Convert 8 pounds to ounces.

ANSWER _____

4 Convert 9 cups to pints and cups.

ANSWER _____

_____

5 Convert 2 liters to milliliters.

ANSWER _____

6 Convert 4 hours to minutes.

ANSWER _____

APPLY IT Show your work

1 For a lemonade stand, Nia fills a cooler with 2 gallons of lemonade. How many cups of lemonade are in the cooler?

WORK SPACE

ANSWER _____

2 A video game tournament lasts 2 hours 35 minutes. How many minutes does the tournament last?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A ribbon is 3 yards 2 feet long. How many inches long is the ribbon?

WORK SPACE AND ANSWER

ANSWER KEY

Unit Switch Lab

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Convert 5 yards to feet.	**15 feet**
2	Convert 6,000 meters to kilometers.	**6 kilometers**
3	Convert 8 pounds to ounces.	**128 ounces**
4	Convert 9 cups to pints and cups.	**4 pints 1 cup**
5	Convert 2 liters to milliliters.	**2,000 milliliters**
6	Convert 4 hours to minutes.	**240 minutes**

PART 2 · APPLY IT

1. **32 cups** There are 16 cups in 1 gallon. Multiply 2 × 16 to get 32 cups.
2. **155 minutes** Convert 2 hours to 120 minutes. Add 120 + 35 to get 155 minutes.

CHALLENGE

132 inches

Accept correct unit names or standard abbreviations, such as ft., min., and mL. For the cups-to-pints item, accept 4 pints 1 cup only, since the question asks for both units.