

Unit Switch Quest

Change larger units into smaller units.

GRADE 4 • 4.MD.A

CCSS.Math.Content.4.MD.A "Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit."

NAME _____

DATE _____

MAKE THE NUMBER BIGGER

To change from a larger unit to a smaller unit, multiply by the number of smaller units in one larger unit. The number gets bigger because the same amount is being counted in smaller pieces.

WORKED EXAMPLE

Convert 8 meters to centimeters.

1. 1 meter = 100 centimeters.

2. $8 \times 100 = 800$.

3. 8 meters = 800 centimeters.

Answer: 800 centimeters

PRACTICE 6 problems

1 Convert 5 feet to inches.

ANSWER _____

2 Convert 4 yards to feet.

ANSWER _____

3 Convert 9 meters to centimeters.

ANSWER _____

4 Convert 6 liters to milliliters.

ANSWER _____

5 Convert 3 pounds to ounces.

ANSWER _____

6 Convert 2 hours to minutes.

ANSWER _____

APPLY IT Show your work

- 1** Nico has 2 yards of cord for friendship bracelets. He cuts the cord into 3 equal pieces. How many inches long is each piece?

WORK SPACE

ANSWER _____

- 2** A school garden gets 5 liters of water each day for 4 days. How many milliliters of water does the garden get in all?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A pet shelter has 4 pounds of dry food in one bin and 2 pounds in another bin. The shelter fills bags that each hold 4 ounces of food. How many full bags can the shelter fill?

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Convert 5 feet to inches.	60 inches
2	Convert 4 yards to feet.	12 feet
3	Convert 9 meters to centimeters.	900 centimeters
4	Convert 6 liters to milliliters.	6,000 milliliters
5	Convert 3 pounds to ounces.	48 ounces
6	Convert 2 hours to minutes.	120 minutes

PART 2 • APPLY IT

1. **24 inches** Convert 2 yards to 72 inches. Then divide 72 by 3 to get 24 inches for each piece.
2. **20,000 milliliters** Multiply 5 liters by 4 days to get 20 liters. Convert 20 liters to 20,000 milliliters.

CHALLENGE**24 bags**

Accept correct unit abbreviations, such as in., ft, cm, mL, and oz. For the challenge, accept work that adds the pounds first or converts each amount to ounces before adding.