

Measure Shift Quest

Turn one unit into another.

GRADE 5 • 5.MD.A

CCSS.Math.Content.5.MD.A "Convert like measurement units within a given measurement system."

NAME _____

DATE _____

SWITCHING UNITS

When you change from a larger unit to a smaller unit, multiply.
When you change from a smaller unit to a larger unit, divide.
Use conversion facts such as 1 m = 100 cm, 1 kg = 1,000 g, 1 L = 1,000 mL, 1 ft = 12 in, and 1 qt = 4 cups.

WORKED EXAMPLE

Convert 7 lb to oz.

1. $1 \text{ lb} = 16 \text{ oz}$.

2. $7 \times 16 = 112$.

3. Write the new unit.

Answer: 112 oz

PRACTICE 6 problems

1 Convert 5 m to cm.

ANSWER _____

2 Convert 2,400 g to kg.

ANSWER _____

3 Convert 96 in to ft.

ANSWER _____

4 Convert 9 qt to cups.

ANSWER _____

5 Convert 2.5 L to mL.

ANSWER _____

6 Convert 320 cm to m.

ANSWER _____

APPLY IT Show your work

- 1** The school esports club records a tournament that lasts 1 h 45 min. How many minutes does the tournament last?

WORK SPACE

ANSWER _____

- 2** The garden club fills 8 containers with 750 mL of water each. How many liters of water do the containers hold altogether?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A recipe uses 2 L 350 mL of fruit punch. You pour the punch equally into 5 pitchers. How many mL of punch go in each pitcher?

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Convert 5 m to cm.	500 cm
2	Convert 2,400 g to kg.	2.4 kg
3	Convert 96 in to ft.	8 ft
4	Convert 9 qt to cups.	36 cups
5	Convert 2.5 L to mL.	2,500 mL
6	Convert 320 cm to m.	3.2 m

PART 2 • APPLY IT

1. **105 min** Convert 1 hour to 60 minutes. Then add $60 + 45$ to get 105 minutes.
2. **6 L** Multiply 8×750 mL to get 6,000 mL. Convert 6,000 mL to 6 L.

CHALLENGE**470 mL**

Answers may omit commas in whole numbers. For Problem 6, accept 3.2 m or the equivalent mixed-unit form 3 m 20 cm.