LESSON MAKER PRO

Measure It Out

Convert units and solve real measurement problems.

GRADE 5 · 5.MDR.7.1

5.MDR.7.1 "Explore realistic problems involving different units of measurement, including distance, mass, weight, volume, and time."

NAME _____ DATE _____

ONE UNIT AT A TIME

When two measurements use different units, change them to the same unit before you add, subtract, multiply, or divide. Choose a unit that makes the question easier, and write the unit with your final answer.

WORKED EXAMPLE

A movie lasts 2 hours 15 minutes. How many minutes does it last?

1. 2 hours = 120 minutes.
2. Add the extra 15 minutes.
3. 120 + 15 = 135 minutes.

Answer: 135 minutes

PRACTICE 6 problems

1 Convert 7 kg to grams.

ANSWER _____

2 Convert 9 L to milliliters.

ANSWER _____

3 A bus leaves at 8:20 a.m. and arrives at 9:05 a.m. How long is the ride?

ANSWER _____

4 A package weighs 5 lb 8 oz. What is its weight in ounces?

ANSWER _____

5 Convert 3 miles to yards.

ANSWER _____

6 A 3 L jug fills how many 750 mL bottles?

ANSWER _____

APPLY IT Show your work

1 A bike trail is 1 mile 660 yards long. You ride the whole trail 3 times. How many yards do you ride?

WORK SPACE

ANSWER _____

2 A pet shelter has 6 bags of dog food. Each bag weighs 4 kg 500 g. What is the total weight in grams?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Five pitchers each hold 1 L 250 mL of lemonade. The lemonade is poured into cups that hold 250 mL each. How many full cups can be filled?

WORK SPACE AND ANSWER

ANSWER KEY

Measure It Out

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Convert 7 kg to grams.	**7,000 g**
2	Convert 9 L to milliliters.	**9,000 mL**
3	A bus leaves at 8:20 a.m. and arrives at 9:05 a.m. How long is the ride?	**45 minutes**
4	A package weighs 5 lb 8 oz. What is its weight in ounces?	**88 oz**
5	Convert 3 miles to yards.	**5,280 yd**
6	A 3 L jug fills how many 750 mL bottles?	**4 bottles**

PART 2 · APPLY IT

1. **7,260 yd** Change 1 mile to 1,760 yards, then add 660 yards to get 2,420 yards for one ride. Multiply 2,420 by 3.
2. **27,000 g** Change 4 kg 500 g to 4,500 g. Multiply 4,500 by 6.

CHALLENGE

25 cups

Accept equivalent unit wording, such as “7,000 grams” for “7,000 g.” For elapsed time, accept “45 min” as well as “45 minutes.”