LESSON MAKER PRO

Measure the Difference

Convert units to solve everyday measurement problems.

GRADE 5 · 5.GR.A.1

5.GR.A.1 "Apply the relationship between measurement units within a given measurement system to convert among different-sized standard measurement units within a given measurement system (e.g...."

NAME _____ DATE _____

CHANGE THE UNIT

Within the metric system, 1 kilometer = 1,000 meters, 1 meter = 100 centimeters, and 1 centimeter = 10 millimeters. Multiply when changing to a smaller unit. Divide when changing to a larger unit.

WORKED EXAMPLE

Convert 4.7 m to centimeters.

1. 1 m = 100 cm.
2. 4.7 × 100 = 470.

Answer: 4.7 m = 470 cm

PRACTICE 6 problems

1 Convert 650 cm to meters.

ANSWER _____

2 Convert 2.4 km to meters.

ANSWER _____

3 Convert 95 mm to centimeters.

ANSWER _____

4 Convert 0.08 m to centimeters.

ANSWER _____

5 Convert 1,250 m to kilometers.

ANSWER _____

6 A ribbon is 1.3 m long. You cut off 45 cm. How many centimeters remain?

ANSWER _____

APPLY IT Show your work

1 You skate 3 laps around a 350 m path. Your goal is to skate 1.5 km. How many more meters do you need to skate?

WORK SPACE

ANSWER _____

2 You have 2.5 m of string for a craft project. You use 85 cm for one project and 0.6 m for another. How many centimeters of string remain?

WORK SPACE

ANSWER _____

CHALLENGE One step up

One walking route has two sections: 1.25 km and 675 m. Another route is 2 km long. Which route is longer, and by how many meters? Explain using conversions.

WORK SPACE AND ANSWER

ANSWER KEY

Measure the Difference

GRADE 5 · 5.GR.A.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Convert 650 cm to meters.	**6.5 m**
2	Convert 2.4 km to meters.	**2,400 m**
3	Convert 95 mm to centimeters.	**9.5 cm**
4	Convert 0.08 m to centimeters.	**8 cm**
5	Convert 1,250 m to kilometers.	**1.25 km**
6	A ribbon is 1.3 m long. You cut off 45 cm. How many centimeters remain?	**85 cm**

PART 2 · APPLY IT

1. **450 m** Three laps are 1,050 m, and 1.5 km is 1,500 m. Subtract 1,050 m from 1,500 m.
2. **105 cm** Convert 2.5 m to 250 cm and 0.6 m to 60 cm. Subtract 85 cm and 60 cm from 250 cm.

CHALLENGE

The second route is 75 m longer. The first route is 1,250 m + 675 m = 1,925 m, and the second route is 2,000 m.

Accept equivalent correct forms, such as 6.50 m for 6.5 m. In the challenge, the explanation must compare both routes in the same unit.