

Name _____

Change Metric Units of Length

Essential Question How can you change meters to centimeters?

CONNECT You have learned to change feet to inches.
In this lesson, you will change meters to centimeters.

UNLOCK the Problem REAL WORLD

Gina needs a piece of wood that is 4 meters long to make a bench. How many centimeters of wood does Gina need?

- What do you need to do to answer the question?
- _____

1 Complete the table to show how the units are related.

STEP 1 Look for a pattern to complete the table.
Describe the relationship.

Meters	1	2	3	4	5
Centimeters	100	200	300	400	

Remember

1 meter = 100 centimeters

To find the number of centimeters, add _____ centimeters for each meter.

STEP 2 Use the relationship to find the number of centimeters in 4 meters.

4 meters = _____ centimeters

So, Gina needs _____ centimeters of wood to make a bench.

Examples

A. Change 6 meters to centimeters.

Add 100 to _____ centimeters.

So, 6 meters = _____ centimeters.

B. Change 8 meters to centimeters.

Multiply 100 centimeters by _____.

So, 8 meters = _____ centimeters.

Math Talk

What do you need to know in order to change from one unit of length to another?

Share and Show



1. How can you change 3 meters to centimeters?

Complete the table to show how the units are related.

Meters	1	2	3	4
Centimeters	100	200		400

To find the number of centimeters, add _____ centimeters for each meter.

So, 3 meters = _____ centimeters.

Find the unknown number.

2. 2 meters = _____ centimeters 3. 5 meters = _____ centimeters

On Your Own

Complete the table.

4.

Meters	3	4	5	6	7	8	9	10
Centimeters	300	400	500				900	

Find the unknown number.

5. 8 meters = _____ centimeters 6. 3 meters = _____ centimeters

Problem Solving



7. Jorge needs 7 meters of wire for a garden fence. The wire is sold in centimeters. How many centimeters of wire does Jorge need?
8. Wanda needs 9 meters of fabric to make curtains. She has 1,000 centimeters of fabric. Does Wanda have enough fabric to make the curtains? **Explain.**

