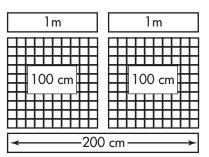
Converting Metric Units of Length

How to change a length measurement from one metric unit to another:

Converting a length from a smaller to a larger metric unit

200 centimeters = _____ meters



Think: If I measure the same length using a larger unit, I will need a smaller number of units.

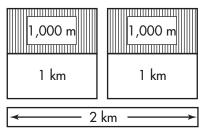
Operation: Divide.

You know 100 cm = 1 m.

Find 200 \div 100; 200 cm = 2 m

Converting a length from a larger to a smaller metric unit

2 kilometers = ____ meters

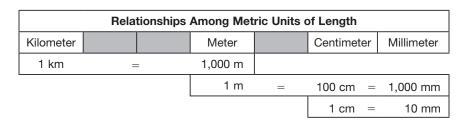


Think: If I measure the same length using a smaller unit, I will need a larger number of units.

Operation: Multiply.

You know 1 km = 1,000 m.

Find 2 \times 1,000; 2 km = 2,000 m



Complete.

1.	80 mm =	cm	2.	234 cm =	mm		
3.	2 m =	mm	4.	14,000 mm =	m		
5.	Which is shorter, 60 meters or 600 centimeters?						
6.	Is 3.2 meters equal to 320 millimeters? Explain.						



Na	me	Practice							
Converting Metric Units of Length									
Con	vert each unit.								
1.	25 m =		_ cm 2 .	. 345 cm =	m				
3.	4.5 m =		cm 4 .	. 10 m =	mm				
5.	987 mm =		cm 6 .	4,000 mm =	cm				
7.	4.2 km =		m 8	3 km =	m				
9.	List three meas to 5 meters.	surements v	with different ι	inits that are equa	al				
Write >, =, or < for each \bigcirc .									
10.	12 cm () 98 n	nm	11.	. 3 km () 5,000	m				
12.	800 cm () 8 n	n	13.	. 38.5 mm () 10) cm				
14.	9,000 cm () 2	km	15	. 1,000,000 mm (100 m				
Mount Saint Helens, a volcano, erupted on May 18, 1980. Before the eruption, Mount St. Helens was 2,950 meters high. After the eruption, it was 2,550 meters high.									
16.	What is the difference in height of Mount St. Helens before and after the eruption, expressed in meters?								
17.	Before the eruption, how many kilometers high was Mount St. Helens?								
18.	Which of the following is equal to 2 meters?								
	A 200 mm	B 20 c	cm C	200 km	D 2,000 mm				
19.	Explain how you would convert 4 m to millimeters.								