

Preparing to Convert Metric Measurement Using Deconstruction

Name:	Date:

Preparing to Convert Metric Measurement Using Number Bonds

King	H enry	Died	U nusually	Drinking	Chocolate	M ilk
Kilo	Hecto	Deca	Unit	Deci	Centi	Milli
			Meter			
10 x10 x 10 x	10 x10 x	10 x	(length)	10 x	10 x10 x	10 x10 x 10 x
LARGER	LARGER	LARGER	Liter	SMALLER	SMALLER	SMALLER
than a unit	than a unit	than a unit	(liquid volume)	than a unit	than a unit	than a unit
			Gram			
1 kilo =	1 hecto =	1 deca =	(mass/weight)	10 deci =	100 centi =	1000 milli =
1,000 units	100 units	10 units	1 Unit	1unit	1unit	1unit
km = kilometer kL = kiloliter kg = kilograms	hm = hectometer hL = hectoliter hg = hectogram	dam = decameter daL = decaliter dag = decagram	m = meter L = liter g = grams	dm = decimeter dL = deciliter dg = decigram	cm = centimeter cL = centiliter cg = centigram	mm = millimeter mL = milliliter mg = milligram
Example 50 kilo	50 hecto	500 deca	5,000 units	50,000 deci	500,000 centi	5,000,000 milli

DIVIDE numbers by **10** if you are getting bigger (same as moving the decimal point 1 space to the left)

MULTIPLY numbers by **10** if you are getting smaller (same as moving the decimal point 1 space to the right)



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Part A: Thinking About Metric Units

Use a meter stick or the chart above to answer the questions below. The most common units are in bold .

1.

```
10 millimeters = _____ centimeters
10 centimeters = _____ decimeters
10 decimeters = ____ meters
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10 meters = _____decameters

10 decameters = _____ hectometer

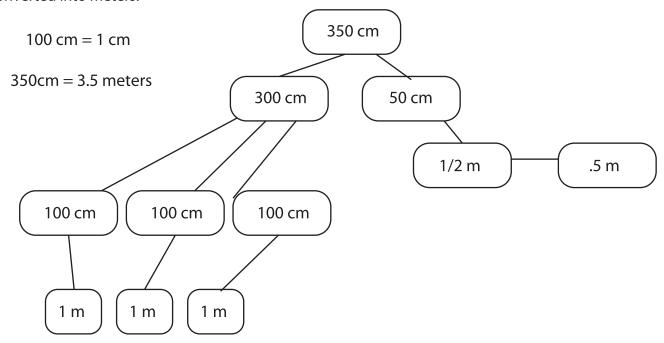
10 hectometers = _____ kilometers

2.

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1 meter = _____ centimeters
1 meter = ____ millimeters
50 cm = ____ meters (this number will be less than 1)
10 cm = ____ meters
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Part B: Converting Measurements by Deconstructing

Now, examine the deconstructed number below. The measurement in the top circle has been converted into meters.



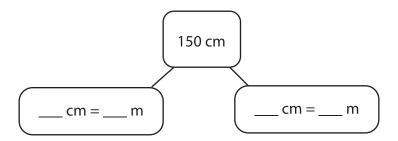
Using the example above as a guide, deconstruct the measurement in the top circle and convert it to meters.



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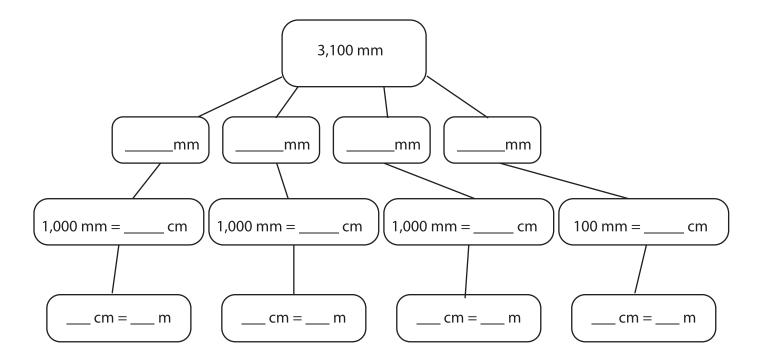
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3. Convert 150 cm to meters using deconstruction method below.



Add the meters in the bottom circles.

- 150 cm is equal to _____ meters.
- 4. Now convert 3,100 mm to meters
- using deconstruction method below.



Add the meters in the bottom circles.

3,100 mm is equal to _____ meters

Questions for Discussion

Compare the original measurement and measurement in meters. What do you notice? Is there a pattern? How could you use this pattern to convert metric units more easily?