



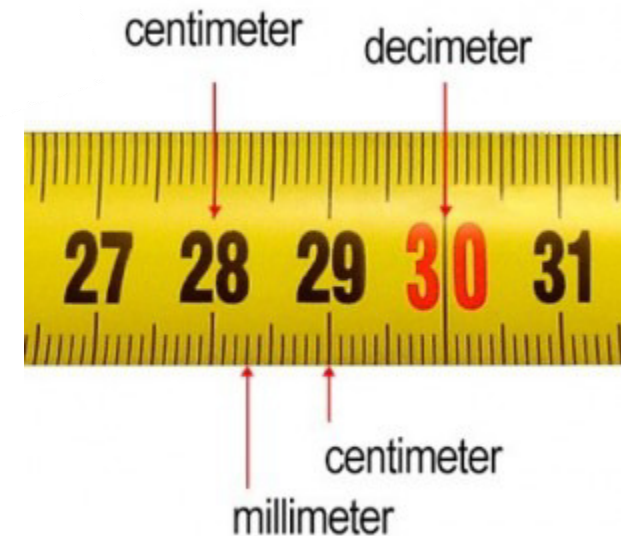
Lesson 4

Objective:

I can use exponents to relate powers of 10 with metric conversions.



1 METER MEASURING TAPE



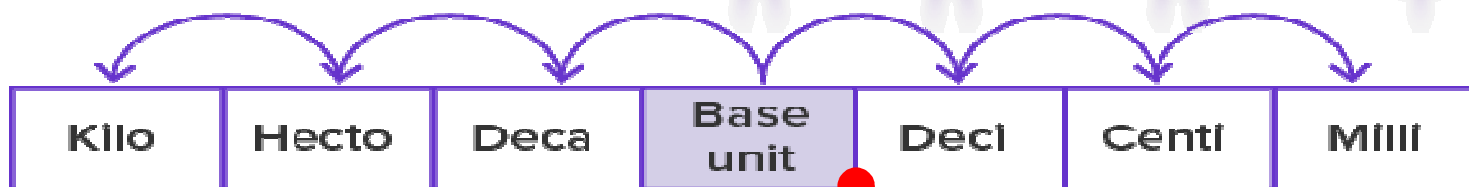
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Let's complete this place value chart...

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
1,000 METERS	100 METERS	10 METERS	1 METER	1/10 METER	1/100 METER	1/1,000 METER
"Kilometer"	"Hectometer"	"Decameter"	"UNIT"	"Decimeter"	"Centimeter"	"Millimeter"
			1			
			0	1		
			0	0	1	
			0	0	0	1

As we **divide**, the digits shift **RIGHT**!



←
Bigger Units

→
Smaller Units

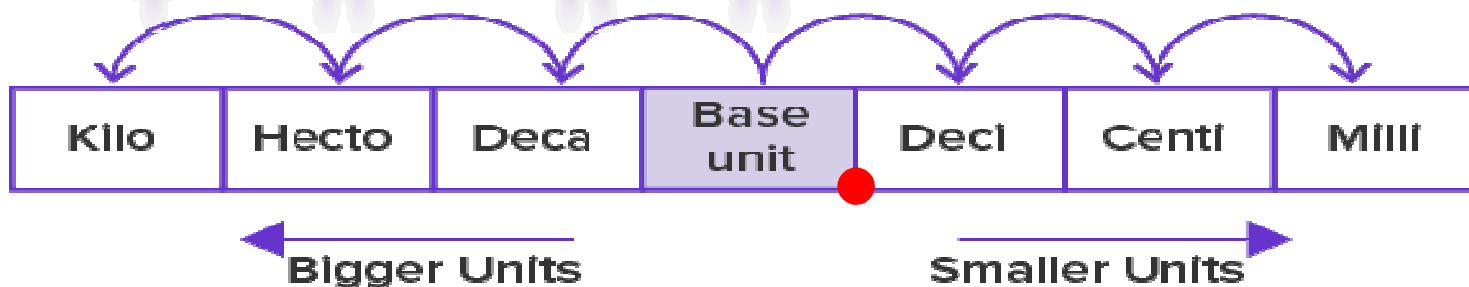
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"Kilometer"	"Hectometer"	"Decameter"	"UNIT"	"Decimeter"	"Centimeter"	"Millimeter"
			1			
		1	0			
	1	0	0			
1	0	0	0			

As we **multiply**, the digits shift **LEFT**!



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Problem Set
1 2 3 4 5

Let's Practice Converting Metric Units

Ask yourself, is the number
getting bigger or smaller?

3 meters to centimeters

$$3 \text{ m} = 300 \text{ cm}$$

105 centimeters to meters

$$105 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$$

1.68 meters to centimeters

$$\underline{\hspace{2cm}} \text{ m} = \underline{\hspace{2cm}} \text{ cm}$$

80 centimeters to meters

$$\underline{\hspace{2cm}} \text{ cm} = \underline{\hspace{2cm}} \text{ m}$$

9.2 meters to centimeters

$$\underline{\hspace{2cm}} \text{ m} = \underline{\hspace{2cm}} \text{ cm}$$

4 centimeters to meters

$$\underline{\hspace{2cm}} \text{ cm} = \underline{\hspace{2cm}} \text{ m}$$

$$\underline{\hspace{2cm}} 3 \times 10^2 = 300$$

$$\underline{\hspace{2cm}} 105 \div 10^2 = 1.05$$

$$\underline{\hspace{2cm}} 1.68 \times 10^2 = 168$$

$$\underline{\hspace{2cm}} 80 \div 10^2 = 0.8$$

$$\underline{\hspace{2cm}} 9.2 \times 10^2 = 920$$

$$\underline{\hspace{2cm}} 4 \div 10^2 = 0.04$$

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Your tasks:

1. Watch Lesson 4 Video – Complete Ed-Puzzle quiz questions
2. Complete Lesson 4 - Problem Set (Google Classroom)
3. Work on your IXL Diagnostic

You have a lot to do – Don't waste time!