

Systems of Measurement



Directions: Write a letter to the President of the United States explaining whether we should continue using the U.S. customary system of measurement in the United States or if we should switch over to the metric system. Be sure to give reasons to support your opinion.

Date:

Dear ,

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Table of Measurements



Metric	United States Customary
<p>Length</p> <p>10 millimeters (mm) = 1 centimeter (cm)</p> <p>100 cm = 1 meter (m)</p> <p>1,000 m = 1 kilometer (km)</p>	<p>Length</p> <p>12 inches (in.) = 1 foot (ft)</p> <p>3 ft = 1 yard (yd)</p> <p>36 in. = 1 yard (yd)</p> <p>5,280 ft = 1 mile (mi)</p> <p>1,760 yd = 1 mi</p>
<p>Area</p> <p>100 square millimeters (mm²) = 1 square centimeter (cm²)</p> <p>10,000 cm² = 1 square meter (m²)</p>	<p>Area</p> <p>144 square inches (in.²) = 1 square foot (ft²)</p> <p>9ft² = 1 square yard (yd²)</p> <p>4,840 yd² = 1 acre (a)</p>
<p>Volume</p> <p>1,000 cubic millimeters (mm³) = 1 cubic centimeter (cm³)</p> <p>1,000,000 cm³ = 1 cubic meter (m³)</p>	<p>Volume</p> <p>1,728 cubic inches (in.³) = 1 cubic foot (ft³)</p> <p>27 ft³ = 1 cubic yard (yd³)</p>
<p>Mass</p> <p>1,000 milligrams (mg) = 1 gram (g)</p> <p>1,000 g = 1 kilogram (kg)</p>	<p>Weight</p> <p>16 ounces (oz) = 1 pound (lb)</p> <p>2,000 lb = 1 ton (T)</p>
<p>Liquid Capacity</p> <p>1,000 milliliters (mL) = 1 liter (L)</p>	<p>Liquid Capacity</p> <p>8 fluid ounces (fl oz) = 1 cup (c)</p> <p>2 c = 1 pint (pt)</p> <p>2 pt = 1 quart (qt)</p> <p>4 qt = 1 gallon (gal)</p>
<p>Time</p> <p>1 minute (min) = 60 seconds (s)</p> <p>1 hour (h) = 60 min</p> <p>1 day (da) = 24 h</p> <p>1 year (y) = 365 da</p>	

Measurements



Directions: Use the ruler, scale, and balance to measure your fidget spinner in both customary and metric units.

	Customary	Metric
Length		
Width		
Height		
Weight / Mass		

Directions: Use the timer to see how long your fidget spinner spins. Spin it 5 times and record your results. Then, find the average spin time.

	Spin Time
Spin #1	
Spin #2	
Spin #3	
Spin #4	
Spin #5	
Average Spin Time (add all the numbers and divide by 5)	

What will you call your fidget spinner?

How will you advertise your fidget spinner to the customer?

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Name Date

Milestone #4 Inquiry Question



Directions: Use what you learned from this milestone to answer the question.

Which system of measurement (the U.S. customary or the metric) is easier to use? Why?

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