

Name _____
 Date _____ Period _____

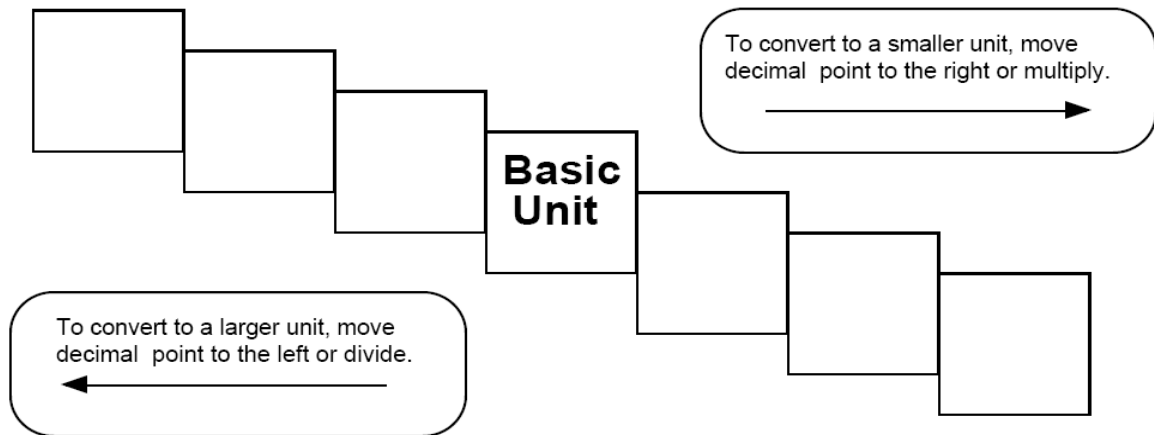
Metric Units

The metric system is based on units of ten. Each unit is ten times larger or ten times smaller than the next unit. This system is used by scientists through out the world.

I. Types of Measurement

Measurement	Basic Metric Unit	Abbreviation
Length (distance from one point to another)		
Volume (amount of space an object takes up)		
Mass (amount of matter or "stuff" an object has)		

II. Metric Prefixes



Write the correct abbreviation for each metric unit.

1) Kilogram _____

4) Milliliter _____

7) Kilometer _____

2) Meter _____

5) Millimeter _____

8) Centimeter _____

3) Gram _____

6) Liter _____

9) Milligram _____

Try these conversions, using the ladder method.

1000 mg = _____ g

1 L = _____ mL

160 cm = _____ mm

14 km = _____ m

109 g = _____ kg

250 m = _____ km

Compare using <, >, or =.

$56 \text{ cm } \bigcirc 6 \text{ m}$

$7 \text{ g } \bigcirc 698 \text{ mg}$

Try these conversions, using the ladder method.

1) $2000 \text{ mg} = \underline{\hspace{2cm}} \text{ g}$

6) $5 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

11) $16 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$

2) $104 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

7) $198 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

12) $2500 \text{ m} = \underline{\hspace{2cm}} \text{ km}$

3) $480 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

8) $75 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$

13) $65 \text{ g} = \underline{\hspace{2cm}} \text{ mg}$

4) $5.6 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$

9) $50 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

14) $6.3 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$

5) $8 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$

10) $5.6 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$

15) $120 \text{ mg} = \underline{\hspace{2cm}} \text{ g}$

Compare using <, >, or =.

$16) 63 \text{ cm } \bigcirc 6 \text{ m}$

$17) 5 \text{ g } \bigcirc 508 \text{ mg}$

$18) 1,500 \text{ mL } \bigcirc 1.5 \text{ L}$

$19) 536 \text{ cm } \bigcirc 53.6 \text{ dm}$

$20) 43 \text{ mg } \bigcirc 5 \text{ g}$

$21) 3.6 \text{ m } \bigcirc 36 \text{ cm}$