

Helpful Hints for H Lessons 5&6 – Units of Measure & Unit Conversion

CONVERSION OF UNITS

In real world applications, we often come across problems that have different units of measurements. For example, we might have a recipe that calls for pints but we only have measuring cups. To make the recipe, we will need to convert the pints to cups. Converting measurements to other units is especially important when working with application problems that involve measurements (time, length, money, etc.). In these types of problems, each value must have the same units. The following table will be useful when converting units.

UNITS OF MEASURE

<p>Linear Measures (U.S.) 1 foot (ft) = 12 inches (in) 1 yard (yd) = 3 feet (ft) 1 mile (mi) = 5,280 feet (ft)</p> <p>Linear Measures (Metric) 1 centimeter (cm) = 10 millimeters (mm) 1 meter (m) = 100 centimeters (cm) 1 meter (m) = 10 decimeters (dm) 1 kilometer (km) = 1000 meters (m)</p> <p>Square Measures (U.S.) 1 square foot (ft²) = 144 square inches (in²) 1 square yard (yd²) = 9 square feet (ft²) 1 acre = 43,560 square feet (ft²) 1 square mile (mi²) = 640 acres</p> <p>Square Measures (Metric) 1 square centimeter (cm²) = 100 square millimeters (mm²) 1 square decimeter (dm²) = 100 square centimeters (cm²) 1 square meter (m²) = 100 square decimeters (dm²) 1 square kilometer (km²) = 1,000,000 square meters (m²)</p> <p>U.S. / Metric Measures 1 inch (in) = 2.54 centimeters (cm) 1 meter (m) = 39.37 inches (in) 1 mile (mi) = 1.61 kilometers (km)</p>	<p>Time 1 minute (min) = 60 seconds (sec) 1 hour (hr) = 60 minutes (min) 1 day = 24 hours (hr) 1 week = 7 days 1 year (yr) = 52 weeks 1 year (yr) = 12 months 1 year (yr) = 365 days 1 decade = 10 years (yr) 1 century = 100 years (yr)</p> <p>Volume 1 pint (pt) = 2 cups (c) 1 quart (qt) = 2 pints (pt) 1 gallon (gal) = 4 quarts (qt)</p> <p>Liquid Volume 1 cup (c) = 8 fluid ounces (oz) 1 pint (pt) = 2 cups (c) 1 pint (pt) = 16 fluid ounces (oz)</p> <p>Weight 1 pound (lb) = 16 ounces (oz) 1 ton (T) = 2,000 pounds (lb)</p>
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