## MEASUREMENT, PERIMETER, AND CIRCUMFERENCE

Measurement refers to the way objects are measured. There are two systems used to measure objects, the U.S. Customary system and the metric system. The U.S. Customary system measures length in inches, feet, yards and miles. The metric system is a base ten system and measures length in kilometers, meters, centimeters and millimeters.

Accuracy and precision refer to using the correct label for a given object or situation. When measuring, accuracy and precision are very important.

U.S. Customary system

12 inches $=1$ foot
3 feet = 1 yard 5280 feet $=1$ mile

## Metric system

10 millimeters $=1$ centimeter 100 centimeters $=1$ meter 1000 meters $=1$ kilometer

To measure liquids, the U.S. Customary system uses cups, pints, quarts, and gallons. The metric system uses kiloliters, liters, and milliliter.

U.S. Customary system<br>1 cup $=8$ fl. ounces<br>2 cups $=1$ pint<br>2 pints $=1$ quart<br>4 quarts $=1$ gallon

Metric system
1000 milliliters $=1$ liter 1000 liters $=1$ kiloliter

For example, to change 6 cups to quarts, the 6 cups must first be changed into pints by using the equation, 2 cups $/ 1$ pint $=6$ cups/x pints to get 3 pints. The 3 pints can now be changed into quarts using the following equation, 2 pints/1 quart $=3$ pints/x quarts to get 1.5 quarts. So 6 cups is equal to 1.5 quarts.

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## PREVIEW

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account all siaes. It a tigure is snown the siaes can just simply de added together. Perimeter can be found for any figure, whether it is a square, triangle, hexagon, pentagon, or octagon. If the perimeter is given, the missing side can also be found.

The circumference is the distance around the circle. If the diameter of the circle is known, the circumference can also be found using the formula $C=\pi \cdot d$. If the radius is given, the diameter can be found by doubling the radius and then the circumference formula can be used. If the circumference is given, the diameter can be found using the same formula.

Try This!

1. Convert the following:

12 feet to inches

120 meters to millimeters $\qquad$

5 cups to ounces

1 aallon to runs


## PREVIEW

2. 1

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3. What is the perimeter of the following shapes:

4. What is the missing side of the following shapes?

5. What is the circumference if $C=\pi \cdot d$ and $n=3.14$ ?


$$
\mathbf{C}=18.84 \text { units }
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