

**LESSON**

**Measurement and Geometry**

**1**

**Reading Strategies: Reading a Table**

Here is a table of customary units of measure.

Length	Weight	Capacity
1 foot = 12 inches	1 pound = 16 ounces	1 cup = 8 fluid ounces
1 yard = 3 feet	1 ton = 2,000 pounds	1 pint = 2 cups

To change from large units of measure to small units, multiply.

Feet is a larger unit of measure than inches.

To change 3 feet to inches:

You know that one foot = 12 inches.

Multiply three feet times 12 (inches).

3 feet = 36 inches

**Change three pints into cups. Use the table to help you answer the following questions.**

1. How many cups are there in a pint?
2. How many pints do you need to change into cups?
3. How will you find the answer?

To change from small units of measure to larger units, divide.

**Change 32 ounces into cups. Ounces are a smaller unit of measure than cups. Use the table to help you answer each question.**

4. How many ounces in a cup? \_\_\_\_\_
5. How many ounces do you need to change into cups? \_\_\_\_\_
6. How will you find the answer? \_\_\_\_\_

## LESSON

## 1

**Measurement and Geometry****Problem Solving: Converting Customary Units**

Write the correct answer.

- Each side of a professional baseball base must measure 15 inches. What is the base's side length in feet?
- In the NBA, any shot made from 22 feet or more from the basket is worth 3 points. How many yards from the basket is that?
- The maximum weight for a professional bowling ball is 16 pounds. What is the maximum weight in ounces?
- A professional hockey goal is 6 feet wide and 4 feet high. What is the area of the goal in square yards?
- An NFL football field is 120 yards long. How many times would you have to run across the field to run 1 mile?
- The official length for a marathon race is 26.2 miles. How many yards long is a marathon? How many feet?

Circle the letter of the correct answer.

- The distance between bases in a professional baseball game is 90 feet. What is the distance between bases in inches?  
A 1,000 inches      C 1,100 inches  
B 1,080 inches      D 10,800 inches
- What is the area of a baseball diamond in square yards?  
F 300 square yards  
G 600 square yards  
H 900 square yards  
J 8,100 square yards
- An NFL football can be no less than  $\frac{87}{96}$  feet long. What is the minimum length for an official football in inches?  
A  $10\frac{7}{8}$  inches      C  $\frac{87}{1152}$  inches  
B  $1\frac{3}{32}$  inches      D  $2\frac{69}{96}$  inches
- An official Olympic-sized swimming pool holds 880,000 gallons of water! How many fluid ounces of water is that?  
F 1,4080,000 fluid ounces  
G 7,040,000 fluid ounces  
H 112,640,000 fluid ounces  
J 1,760,000 fluid ounces