



## Homework 12-4

### Changing Customary Units

#### Another Look!

Here is a table of the customary units of length, capacity, and weight. Use the table to change one customary unit of measure to another.

Customary Units		
Length	Capacity	Weight
1 ft = 12 in.	1 tbsp = 3 tsp	1 lb = 16 oz
1 yd = 36 in.	1 fl oz = 2 tbsp	1 T = 2,000 lb
1 yd = 3 ft	1 c = 8 fl oz	
1 mi = 5,280 ft	1 pt = 2 c	
1 mi = 1,760 yd	1 qt = 2 pt	
	1 gal = 4 qt	



To change smaller units to larger units, divide.  
To change larger units to smaller units, multiply.

Which distance is longer, 100 in. or 10 yd?

$$1 \text{ yd} = 3 \text{ ft} \quad 1 \text{ ft} = 12 \text{ in.}$$

$$3 \text{ ft} \times 12 \text{ in.} = 36 \text{ in.}$$

$$10 \text{ yd} \times 36 \text{ in.} = 360 \text{ in.}$$

360 in. is greater than 100 in., so 10 yd is longer than 100 in.

In **1** and **2**, choose the greater measurement.

1. Which is longer: 6 ft or 70 in.?

2. Which weighs more: 5 lb or 100 oz?

In **3** through **6**, find each missing number.

3.  $8 \text{ yd} = \underline{\quad} \text{ ft}$

4.  $60 \text{ in.} = \underline{\quad} \text{ ft}$

5.  $3 \text{ lb} = \underline{\quad} \text{ oz}$

6.  $7 \text{ ft} = \underline{\quad} \text{ in.}$

In **7** through **10**, compare. Write  $>$  or  $<$  for each  $\bigcirc$ .

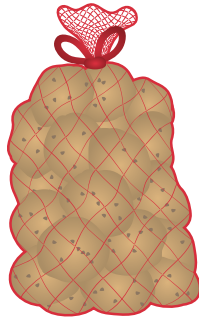
7.  $1 \text{ pt} \bigcirc 1 \text{ qt}$

8.  $14 \text{ in.} \bigcirc 1 \text{ yd}$

9.  $9 \text{ ft} \bigcirc 2 \text{ yd}$

10.  $24 \text{ oz} \bigcirc 2 \text{ lb}$

11. Mrs. Brown buys this 5-pound bag of potatoes. There are 18 potatoes in the bag. How many ounces does the bag of potatoes weigh?



What information do you need to solve this problem?



12. Which measurement is NOT equal to 1 mile?



- A 1,760 yd
- B 5,280 yd
- C 5,280 ft
- D 63,360 in.

13. **Explain** A recipe calls for 4 tsp of baking soda and 1 fl oz of vanilla. Which measurement is greater? Explain.

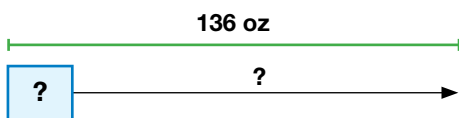
14. A parking space is 20 feet long. A pickup truck is 6 yards long. How many inches longer is the parking space than the truck?

15. Liza is 4 feet 6 inches tall. How many inches tall is she?



- A 46 in.
- B 48 in.
- C 54 in.
- D 76 in.

16. **Use a Strip Diagram** How can you use a strip diagram to convert 136 oz into c?



17. **Extend Your Thinking** Donyell is choosing between two water bottles to take to practice. The red bottle holds 1 pint of water. The blue bottle holds 2 cups 4 fluid ounces of water. Which water bottle holds more? Explain.

18. A carpenter uses a 15-foot tape measure. How many yards are in 15 feet?

19. **Number Sense** How many cups are in a 2-quart pitcher of lemonade?