

## Measurement

### Skill 4 - 18E

#### Problem Solving

Test Question 18E

Kayla is building a cabinet. It is going to be 50 inches long. Write 50 inches as feet and inches.

number of inches	÷	number of inches in 1 foot	=	number of feet and inches	
↓		↓		↓	Answer: 50 inches = 4 feet 2 inches
50	÷	12	=	4 r2	

**Directions:** Solve the following word problems.

1. Maria is 4 feet 2 inches tall. Joey is 5 inches shorter. How tall is Joey?
  
2. Jason ran 2 laps around the track. Each lap is 900 feet. How many yards did Jason run?
  
3. Mr Jackson drives 2 miles to get to work. How many feet are in 2 miles?
  
4. Which measurement is the greatest?
  - a. 4 yards      b. 58 inches      c. 5 yards 9 inches      d. 14 feet 3 inches
  
5. Mr. Baxter filled his pool with water? Which is the most appropriate unit of capacity to measure the amount of water in his pool?
  - a. quart                      b. pound                      c. gallon                      d. foot
  
6. John needs 2 quarts of water to make lemonade. How many pints of water does he need?
  
7. Kayla is filling a punch bowl with 5 quarts of water. How many gallons and quarts did she use?
  
8. Mike’s math book weighs 3 lb 6 oz. How many ounces does Mike’s book weigh?

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**Directions:** Solve the following word problems.

9. Which measurement has the greatest weight?  
a. 3 lb 1 oz            b. 36 oz            c. 2 lb 8 oz            d. 48 oz
10. Which weight is equivalent to 2 lb 6 oz?  
a. 18 oz            b. 42 oz            c. 32 oz            d. 38 oz
11. Nancy is measuring the length of her vegetable garden. Which most reasonable unit of measure for her to use?  
a. millimeter            b. centimeter            c. decimeter            d. meter
12. Karen is measuring the length of a key. Which is the most appropriate unit of measure for her to use?  
a. millimeter            b. centimeter            c. decimeter            d. meter
13. Mrs. Haley is driving to another city to go to the mall. She wants to measure the distance that she travels. Which unit of measure should she use?  
a. decimeter            b. meter            c. kilometer            d. centimeter
14. John wants to measure the mass of a dollar bill. Which measure should he use?  
a. ounce            b. gram            c. kilogram            d. pound
15. Karen's cat weighs 7 kilograms. How many grams does her cat weigh?
16. John's water bottle has a capacity of 1 liter. How many milliliters of capacity does his water bottle have?
17. Paul wants to know the capacity of his swimming pool. Which is the most reasonable unit of measure for the capacity of a pool? Milliliter or liter?
18. Which unit of measure is the most reasonable to use to measure the amount of water in a raindrop? Milliliter or liter?

Answers: Skill 18E Grade 4

1. 1 ft = 12 in. so, Maria is 50 in. tall. Joey is  $50 - 5$  or 45 in. tall

2. 3 ft = 1 yd  
 $900 \times 2 = 1,800$  ft  
 $1,800 \div 3 = 600$  yd

3. 1 mi = 5,280 ft  
 $5,280 \times 2 = 10,560$  ft

4. c. 5 yards 9 inches

5. c. gallons

6. 1 qt = 2 pt so, he needs 4 pints

7. 1 gal = 4 qt  
so, 5 qt = 1 gal 1 qt

8. 1 lb = 16 oz  
so, his book weighs 54 oz

9. a. 3 lb 1 oz

10. d. 38 oz

11. d. meter

12. b. centimeter

13. c. kilometer

14.  $690 \div 23 = 30$  trees

15. 7,000 grams

16. 1,000 mL

17. liter

18. milliliter