

1. Put the correct symbol (+, -, •, ÷ or =) after each word:

- | | |
|---------------|-------------------|
| a. product | d. Is the same as |
| b. difference | e. twice |
| c. quotient | f. Sum |

#2-5, write an equation for each situation, then solve the problem.

2. A plumber charges \$30 to drive to your house and a certain amount per hour. If he worked for three and a half hours and the total bill was \$292.50, what was the hourly fee?

Equation: _____

Solution: _____

3. A new tent costs \$389, but there is also sales tax of 5.5%. What is the total cost of the tent?

Equation: _____

Solution: _____

4. You wisely invest your first paycheck in the stock market. You buy stock in **Bank of America** for \$23.43 per share and you buy some stock in **3Com** for \$8.40 per share. The Bank of America stock lost \$1.05 per share in the first week, but the 3com stock gained \$0.45 per share. If the stocks continue to change at the same rates, when will their values be equal?

Equation: _____

Solution: _____

5. When Joey Chesnut (the Hotdog Eating Champ of the World) was practicing he ate 21 hotdogs in 6 minutes. Joey was wondering how many hot dogs he should be able to eat in 10 minutes.

Equation: _____

Solution: _____

6. Leonhard Euler discovered that the number of faces (F) and vertices (V) on a polyhedron was always equal to the number of edges (E) plus 2. Here's the formula: $F + V = E + 2$. If a prism has 10 vertices and 15 edges, how many faces does it have?

7. _____ liters = 10 pints

Liquid Volume Measures	
3 tsp	1 TB
16 TB	1/2 pint
1 pint	16 ounces
2 pint	1 quart
4 quart	1 gallon
1 gallon	3.8 liters

8. A grocery store bagboy always tries to put X items in each bag. If your purchase filled W bags, write an algebra expression for how you would calculate the number of items you purchased.

9. Walter Payton has been clocked at 4 seconds in the 40 (40 yd). How many miles per hour is this?