Write an expression to model each statement.

1. The difference of twenty and the quotient of five and an unknown number.

$$20-(5+x)$$

20 - -

2. Eight less than three times a number

3. Six times the quantity Seven plus a number.

4. The product of two and the cube of a number.

$$2 \times 3$$

6. The total number of basketball players at a 3-on-3 tournament if all teams had 4 players.

EQ:

Variables

$$X = \text{Hof}$$

Write an equation to model each statement. Define your variables.

5. The area of a square if all sides have a length of c feet.

EQ:

Variables

7. You have 20 dollars more than me.

EQ:

Variables: 
$$A = 3h$$
 you  $C = 4h$  me has

8. The amount of money you would have spent at the store if you bought some cans of pop for \$1.5 each and some bags of chips for \$2 each.

EQ:

10. At the sporting goods store basketballs cost \$25 each and volleyballs cost \$20 each. Write an equation that models the cost of buying some basketballs and some volleyballs.

EQ:

A = Z5B + 20V

9. Write an equation for the amount of money a plumber would charge you if they charge \$75 for the house call then \$30 per hour for repairs.

EQ:

Variables: 
$$C = 4$$
 charged  $h = 4$  hrs