

## #1-10, Translate the sentence into an equation or expression.

1. Sixteen more than a number is thirty-six.
2. Ten less than three times a number is 40
3. Twenty-five decreased by a number is 10.5
4. The quotient of seventeen and a number is one
5. Half a number decreased by five
6. The product of a number and thirty-two
7. Seven less than three times a number is eight
8. Four times *the sum* of a number and five is fourteen
9. Eleven plus the quotient of a number and sixteen
10. A number times 4 is equal to the product of three and eight

## #11-14, Decide whether or not the equation is the correct translation of the verbal sentence.

Sentence	Equation
11. Half of the sum of six and a number is seven.	$\frac{1}{2}(6 + n) = 7$
12. Seven less than three times a number is eight.	$7 - 3x = 8$
13. Three times the difference of two and a number is four.	$(3 \cdot 2) - y = 4$
14. Four times the sum of a number and five is thirty-two.	$4(m + 5) = 32$

## #15-18, Which equation is the correct model of the situation?

15. **Pizza Party** You and three friends bought a pizza. You paid \$2.30 for your share ( $\frac{1}{4}$  of the pizza). Let  $p$  be the cost of the pizza.  
 a.  $4p = 2.30$       b.  $\frac{1}{4}p = 2.30$
16. **Scale Model for a Car** A model for a new car is scaled  $\frac{1}{10}$  of the actual size. The length of the model's body is 45. Let  $L$  be the actual length of the car's body.  
 a.  $\frac{1}{10}L = 45$       b.  $L = \frac{1}{10}(45)$
17. **Sports Cars** There are 24 sports cars in a car lot. Each car is either red or white. There are four fewer red cars than white cars. Let  $w$  be the number of white cars.  
 a.  $w + (w - 4) = 24$       b.  $w + 4 = 24$
18. **Coin Collection** Suppose you have a collection of rare coins. Your favorite coin will be fifty years old in only six years. Let  $c$  be the age of the coin now.  
 a.  $c - 6 = 50$       b.  $c + 6 = 50$

## #19-20, write the situation described as a math expression.

19. The width of a box is 5 less than its length. Write an expression for the width in terms of its length
20. Christian has a certain number of M&Ms in his pocket. Abbey had 10 more than Christian. How many M&Ms total?