## Section 2.4

Variables and Equations

Goal: to solve equations with variables

equation:

Shows two expressions
have the same value

Ex:

$$16(4) = x$$
symbols:

$$= x$$

$$= 50$$

$$= x$$

$$=$$

## Write the equation:

a). The sum of p and 15 is -3

b). 10 is the product of -2 and a number r. 10 = -2(r)

c). The quotient of n and 2 is 14.

17 - x = 12, x = -5  

$$|7+(+5)|^{2} |2$$
  
 $\frac{p}{3} = 6$ , p = 2

Solve using mental math:

$$x + 3 = 11 \times = x$$

$$3 = \frac{x}{7} \qquad x = 2$$

## Write the equation and solve:

If go-cart rides cost \$5 each at a county fair and the operator takes in \$1000 total for the first day of the fair, how many times did people ride the go-carts that day?

$$5x = 1000$$

What is the difference between an equation and an expression?
Give an example of each.

Equation:

Expression:

Hwk: pg. 87 - 89 #7, 8, 11-19 all, 20-32(4th), 35, 40-43 all, 50 - 52 all