

**5 - 1**

# **Introduction to Equations**

equation: two numbers or expressions  
set equal to each other

**True or False?**

$$\text{Ex: } 2 + 4 = 3 + 3 \quad \text{true}$$

6                      6

$$\text{Ex: } 251 + 37 = 245 + 40 \quad \text{false}$$

288                      285

open sentence: Contains one or more variables

solution: value for the variable that makes the equation true

Ex:  $n + 4 = 9$       open

5 is solution

**Tell whether each sentence is true, false, or open.**

**Ex:  $3(8 - 2) = 20$**

false  $3(6) = 20$   
 $18 = 20$

**Ex:  $2y - 6 = 10$**

open

**Ex:  $-9 + 5 = 2(7 - 9)$**

true  $-4 = 2(-2)$   
 $-4 = -4$

Ex: Which value (1 or 2) is a solution of the equation  $2x + 5 = 9$ ?

$$2(1) + 5 = 9$$

$$7 \neq 9$$

$$2(2) + 5 = 9$$

$$9 = 9 \quad \checkmark$$



Homework:

p. 210 #16 - 38 even