

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# True or False? Understanding the Equal Sign

## LEARNING OBJECTIVE

I can tell if an equation with an equal sign (=) is true or false.

### What is the Equal Sign?

The equal sign (=) means that the values on both sides of it are the **same**.

Think of it like a balanced scale. For an equation to be **true**, both sides must be perfectly balanced and equal.



*These scales are balanced, showing the two sides are equal.*

## Let's Look at Some Examples

### True Equation

$$5 + 3 = 8$$

This is **true** because  $5 + 3$  is 8. Both sides are equal.

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### False Equation

$$4 + 2 = 7$$

This is **false** because  $4 + 2$  is 6, not 7.  
The two sides are not equal ( $6 \neq 7$ ).

# Practice Set 1: True or False?

**Directions:** Read each equation. If it is correct, circle **True**. If it is not correct, circle **False**. Then, in the box below, explain how you know.

$$5 + 2 = 7$$

True

False

How do you know?

$$3 + 4 = 6$$

True

False

How do you know?

$$8 + 1 = 9$$

True

False

How do you know?

$$2 + 2 = 5$$

True

False

How do you know?

$$6 + 3 = 9$$

True

False

How do you know?

$$4 + 4 = 7$$

True

False

How do you know?

# Practice Set 2

**Directions:** Read each equation below. Is it a true statement? Circle 'True' if it is correct and 'False' if it is not.

	True	False
15 - 7 = 8	<input type="radio"/>	<input type="radio"/>
16 - 8 = 8	<input type="radio"/>	<input type="radio"/>
13 - 7 = 6	<input type="radio"/>	<input type="radio"/>
11 = 12 - 1	<input type="radio"/>	<input type="radio"/>
18 - 9 = 9	<input type="radio"/>	<input type="radio"/>
12 - 5 = 7	<input type="radio"/>	<input type="radio"/>
14 - 6 = 8	<input type="radio"/>	<input type="radio"/>
15 - 5 = 10	<input type="radio"/>	<input type="radio"/>

## Self-Check

How many are  
**TRUE?**

How many are  
**FALSE?**

## Challenge Zone

Fill in the missing number to make each equation **true**.

$$7 + \square = 12$$

$$\square + 5 = 14$$

$$15 = 8 + \square$$

## Time to Reflect

In your own words, what does the equal sign ( = ) mean?

## Exit Ticket

Show what you know!

Create one **true** equation and one **false** equation.

My **True** Equation:

My **False** Equation: