**Learning Objective** 

# **3-2** We will evaluate<sup>1</sup> equations and inequalities.

<sup>1</sup> to judge

What are we going to do today?

We will evaluate equations and inequalities.

What are we going to evaluate?

We will evaluate equations and inequalities.

What does evaluate mean?

Evaluate means to judge.

### **Activating Prior Knowledge**



- 1. Circle the greatest value .
- 2. Circle the value that is the least.
- 3. Circle the values that are equal.

Teacher works problem #1 then students identify their answer on their whiteboards (CFU). Teacher works problem #2 then students identify their answer on their whiteboards (CFU). Teacher works problem #3 then students identify their answer on their whiteboards (CFU).

CFU: Today, we will evaluate equations and inequalities, which will require us to use skills we already know such as how to add, subtract, and compare values.

3-2 We will evaluate equations and inequalities.

### **Concept development**



What is an equation?

An equation has an equal sign and both sides have the same value.

Which example is an inequality? How do you know? Example \_\_\_\_A is an inequality, because \_\_\_\_\_ the two sides do not have the same value and the < symbol is used \_\_\_\_\_.

A. 4 - 1 < 2 + 5</li>
B. 8 + 3 = 15 - 4

3-2 We will evaluate equations and inequalities.

# Importance CST or Test

A

В

С

**D** 6

54	

What number makes this number sentence true?

	3	+	5	=	×
3					
4					
5					

# **Playing sports**

If you want to get better at something, then you have to compare how you practice to how your competitor practices.



### **Buying gifts (Being fair)**

Your mom can determine how many toys to buy for each of the children so they all have the same amount of toys.

2

3 marbles + 2 marbles = 4 marbles + marbles

Why is it important to evaluate equations and inequalities? (pair-share) Does anyone else have another reason why it is important to be able to evaluate equations and inequalities? You may give me one of my reasons or one of your own. Which reason means more to you? Why?





Skill

Step 2 Compare the values. Make sure the number sentence is true.

**Skill development CFU**: How did I calculate the value of each expression? What values did I have to compare? What symbol did I write to make the number sentence true? How did I determine if the number sentence is true? How did I decide it was an *equation/inequality*? **Guided practice CFU**: Do step #1 and show me. (Randomly choose students to share answers.) Do step

#2 and show me. Why did you choose the "=, <, or >" symbol? How did you decide it was an equation/inequality?

3-2 We will evaluate equations and inequalities.



Step 1	Calculate the value of each expression, if necessary.
Step 2	Compare the values. Make sure the number sentence is true.

**Skill development CFU**: How did I calculate the value of each expression? As I compare the values, what do I need to make sure is true? Why did I choose the number <u>#</u>? How did I determine the *equation/inequality* is true?

**Guided practice CFU**: Do step #1 and show me. (Randomly choose students to share answers.) Do step #2 and show me. Why did you choose that number? How do you know the *equation/inequality* is true?

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# Closure

1. Write the word next to its definition.

equation inequality

inequality. I have one of these symbols > or < and my two sides are not equal.

equation. I have an equal sign and my two sides have the same value.



4. What did you learn today about equations and inequalities? Why is that important to you?

CFU: For #1 have students write the word (answer) on their whiteboards.

