

7.1 Equations (6.EE.5)

Vocabulary

An equation is a mathematical sentence showing two expressions are equal. An equation contains an equal sign, =.

Vocabulary Start-Up



An equation is a mathematical sentence showing two expressions are equal. An equation contains an equals sign, =.

Equation
Definition math sentence showing 2 expressions are =
Example $1+2=3$

Expression
Definition a combination of numbers and at least one operation sign.
Example $3+2$ OR $k+7$

← may have letters

How are an equation and an expression similar?

Both can have numbers, letters, + operation signs.

How are an equation and an expression different?

An equation has an equal (=) sign.



Reason Abstractly Give an example of an equation that has a solution of 5. $4+1=5$

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Guided Practice:

Identify the solution of each question from the list given.

1.) $9 + w = 17$; 7, 8, 9

$$w = 8$$

2.) $8 \div c = 8$; 0, 1, 2

$$c = 1$$

Solve each equation mentally.

3.) $x - 11 = 33$

$$x = 44$$

4.) $4x = 32$

$$x = 8$$

5.) Mississippi and Georgia have a total of 21 electoral votes. Mississippi has 6 electoral votes. Use mental math or the guess, check, and revise strategy to solve the equation $6 + g = 21$ to find g , the number of electoral votes Georgia has.

$$6 + g = 21$$

$$g = 5$$

6.) Riley and her sister collect stickers. Riley has 220 stickers in her sticker collection. Her sister has 55 stickers in her collection. Riley has how many times as many stickers as her sister? Use mental math or the guess, check, and revise strategy to solve the equation $55x = 220$.

$$55x = 220$$

$$x = 4$$

Building on the Essential Question - How do you solve an equation?

Option #1 = use mental math

Rate Yourself - How confident are you about equations? Shade the portion that applies.

