

Name: _____

Date: _____

Ms. Napolitano

Topic: Equations

Classwork Day 3

Vocabulary

1) **Equation -**

2) **Solve -**

3) **Check -**

4) **Reciprocal or Multiplicative Inverse-**

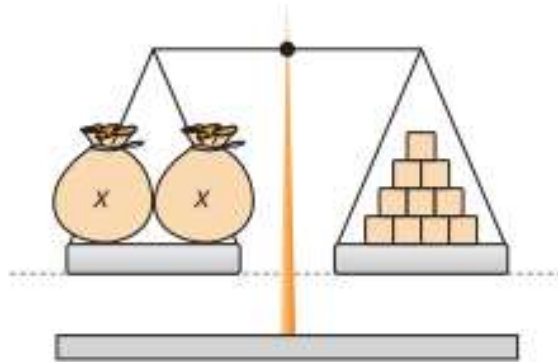
Think-Pair-Share

Read the problem below. Then explore how to solve a multiplication equation.

Delia puts two bags of blocks in the left-side pan of a balance. Each bag has the same number of blocks. After she adds 10 blocks to the right-side pan, the pans hang evenly. How many blocks are in 1 bag?

Picture It

Draw the balance, bags, and blocks.



- a) Write an expression on the left side of the balance beam.
- _____
- b) Write an expression on the right side of the balance beam.
- _____
- c) Write an equation that represents this situation.
- _____

Solve	Steps	Check
	<p>Goal: To get the variable alone.</p> <ol style="list-style-type: none">1. Write the equation.2. Identify the operation.3. Perform the inverse operation to both sides.4. Simplify5. Check	<ol style="list-style-type: none">1. Re-Write the equation. _____2. Substitute the value for the variable into the equation. _____3. Simplify _____4. If both sides equal the same number then your value for the variable is correct. If it does not equal the same number then you have to go back and check your work. _____ = _____

Solve

Check

Solve

Check

Ex #5

Solve $\frac{1}{5}x = 20$

Solution: _____

Ex #6

Solve $\frac{1}{10}x = 7$

Solution: _____

Solve

Check

Solve

Check

Ex #7

Solve $\frac{b}{5} = 6$

Solution: _____

Ex #8

Solve $\frac{c}{3} = 14$

Solution: _____

Solve

Check

Solve

Check

Ex #9

Solve $\frac{5}{6}x = 10$

Solution: _____

Ex #10

Solve $\frac{1}{2}x = 2$

Solution: _____

Solve

Check

Solve

Check

Ex #11

Solve $\frac{3}{5}x = 9$

Solution: _____

Ex #12

Solve $\frac{2}{3}x = 30$

Solution: _____

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Activity: 6.2

Solve the equation. Check your solution.

1. $\frac{x}{2} = 9$

2. $4 = \frac{t}{4}$

3. $\frac{3w}{20} = 12$

4. $5s + 7 = 30$

5. $5a = 15$

6. $8 \cdot d = 40$

7. $60 = 20m$

8. $7g = 14$

9. $9y = 72$

10. $3 \cdot n = 63$

11. $4 = \frac{v}{11}$

12. $\frac{c}{7} = 5$

13. $\frac{5b}{2} = 27.5$

14. $2h + 15 = 20$

15. $24k = 60$

16. $210 = 7r$

Describe and correct the error in solving the equation.

17.

\times	$\frac{x}{9} = 3$
	$9 \cdot \frac{x}{9} = 3$
	$x = 3$

18.

\times	$4 \cdot z = 32$
	$\frac{4 \cdot z}{4} = 4 \cdot 32$
	$z = 128$