

Name: _____

Milestone 2 (Part 1 of 2)

You will:

- Apply Inverse Operations to Solve for Multi-Step Equations

Learn:

[Click here](#) or use the QR Code to see the slides to fill in the Graphic Organizer section.



Graphic Organizer:

1. Why do we use inverse operations?

2. What does balancing equations mean?

3. When do we use PEMDAS?

4. Do we use PEMDAS when we solve for a variable?

5. What are the two steps to solving using inverse PEMDAS (SADMEP)?

Step 1: _____

Step 2: _____

6. Use the notes to show how to solve this problem (this is the same problem in the slide):

$$\left(-\frac{1}{2}x + 3\right) - 5 = 2$$

7. What is the reciprocal of $\frac{3}{2}$?

8. Use the notes to show how to solve this problem (this is the same problem in the slide):

$$-\frac{3}{8}k + 8 = -4$$

Now you try:

Show your work by using inverse operations to balance equations!

You will not receive credit if you do not show your work.

Solving Multi-Step Equations



$$3x + 17 = -16$$



$$\frac{1}{3}x + 5 = 8$$



$$4x + 8 = -20$$



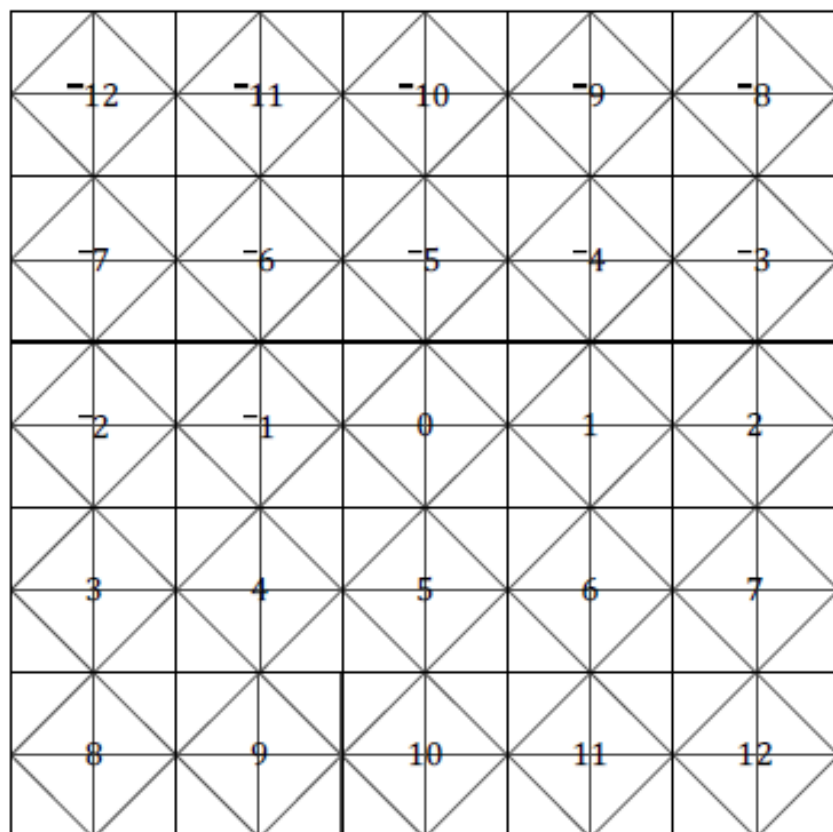
$$\frac{2}{3}x - 5 = -7$$



$$9x - 9 = -9$$



$$\frac{1}{2}x + 5 = 2$$



$$-8x - 3 = 29$$



$$-3x + 24 = 3$$



$$-x + 16 = 26$$



$$7x + 7 = 21$$



$$\frac{2}{9}x - 3 = -5$$



$$\frac{1}{4}x + 8 = 9$$



$$\frac{1}{5}x - 1 = 0$$



$$\frac{3}{5}x + 4 = 10$$



$$9x - 13 = 14$$



$$-3x - 5 = -38$$



$$2x - 1 = -11$$



$$-4x - 9 = -5$$



$$4x + 13 = 17$$



$$-x + 8 = 2$$



$$\frac{1}{2}x - 7 = -8$$