Warm Up Use mental math to find each solution. **1.** 7 + y = 15 y = 8**2.** $x \div 9 = 9$ *x* = 81 **3.** 6x = 24x = 4**4.** x - 12 = 30 x = 42

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Essential Question:

How do you solve one-step equations with integers?

Standard: MCC7.EE.4: Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations to solve problems by reasoning about quantities.

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Learn to solve one-step equations with integers.

Equation Song

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Fill in the tabs of the foldable as shown

Order of Operations

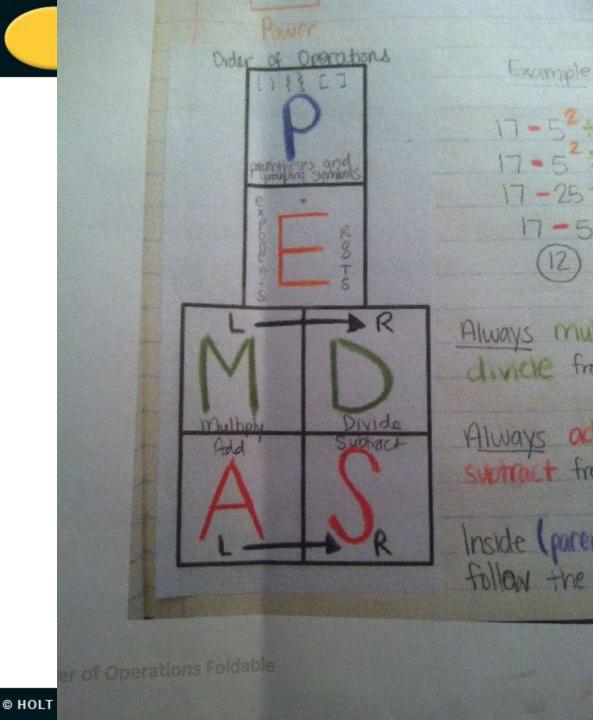
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Solung

Inverse Operations

1 - 5 + CP Text: 4-3,4-4, 2- 5+ CP Text: 5-7 Text: 5-7

multi-Step Text: 5-3



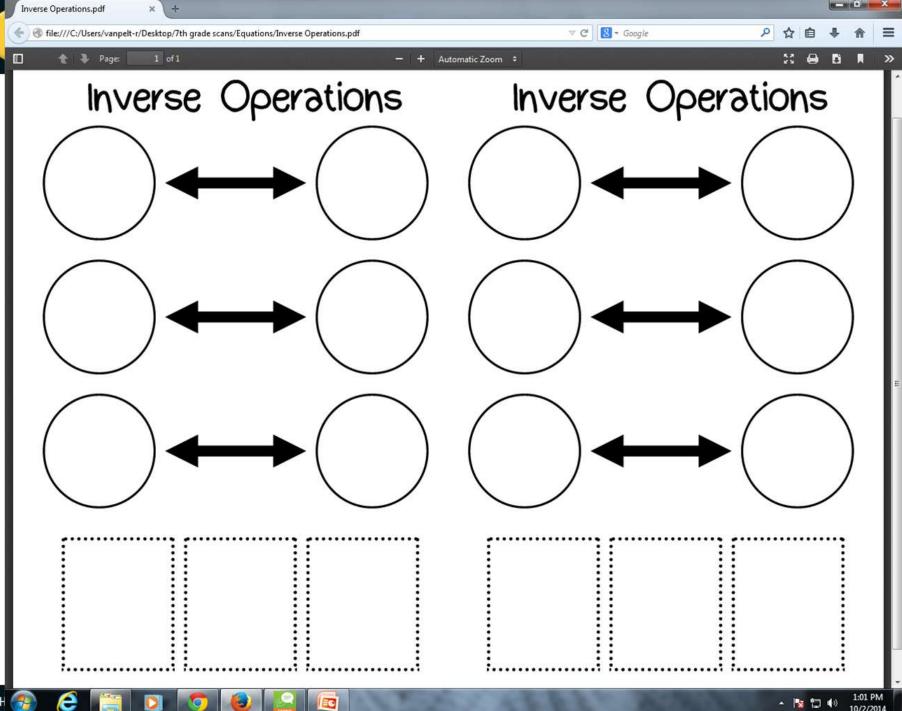
aining Integers

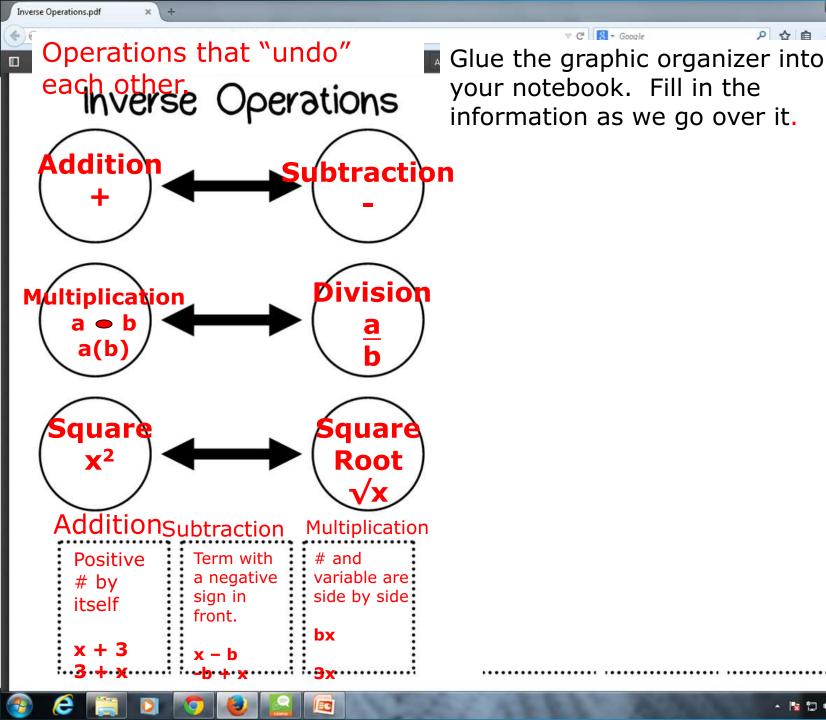
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Copy the following in the foldable for 1-Step Equations

<u>Steps</u>

1.Draw a line down the equation through the equal sign.

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- 2. Identify the operation taking place.
- 3. Do the inverse (opposite) of that operation.
- 4. Do the same to the other side of the equation.

This example goes in foldable

Solve each question. Check each answer.

$$-6 + x = -7$$

$$-6 + x = -7$$

+ 6 + 6
 $x = -1$

Add 6 to both sides to isolate the variable.

$$-6 + x = -7$$

-6 + (-1) $\stackrel{?}{=} -7$
-7 $\stackrel{?}{=} -7 \checkmark$

Substitute –1 for x.

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True.

A. Goes in the foldable B. Goes in Example section

Solve.

- A. n 2.75 = 8.3
 - n 2.75 = 8.30
 - + 2.75 + 2.75
 - n = 11.05

Use the Addition Property of Equality. Add 2.75 to both sides.

B. a + 32.66 = 42a + 32.66 = 42.00-32.66 - 32.66a = 9.34

Use the Subtraction Property of Equality. Subtract 32.66 from both sides.

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Goes in example section

Solve each equation. Check each answer.

$$-3 + x = -9$$

$$-3 + x = -9$$

+ 3
 $x = -6$

Add 3 to both sides.

$$-3 + x = -9$$

-3 + (-6) $\stackrel{?}{=} -9$
-9 $\stackrel{?}{=} -9$

Substitute –6 for x.

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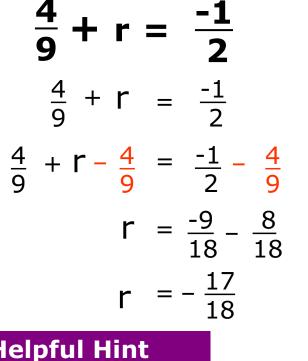
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True.

Goes in Foldable

Solve. Write the answer in simplest form.



Use the Subtraction Property of Equality.

Find a common denominator.

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Subtract.

Helpful Hint

You can also isolate the variable r by adding the $\frac{4}{9}$, $-\frac{4}{9}$, to both sides. opposite of

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Goes in the example section

Solve. Write the answer in simplest form.

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

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

$$\mathbf{x} - \frac{3}{7} + \frac{3}{7} = \frac{5}{7} + \frac{3}{7}$$
Use the Addition Property of Equality.
$$\mathbf{x} = \frac{8}{7} = 1\frac{1}{7}$$
Add.

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Goes in example section

Solve. Write the answer in simplest form.

$$\mathbf{x} - \frac{3}{8} = \frac{7}{8}$$

$$x - \frac{3}{8} = \frac{7}{8}$$

$$x - \frac{3}{8} + \frac{3}{8} = \frac{7}{8} + \frac{3}{8}$$
Use the Addition Property of Equality.
$$x = \frac{10}{8} = 1\frac{1}{4}$$
Simplify.

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Goes in the foldable

Solve each equation. Check each answer. $\frac{D}{-5} = 6$ $\frac{b}{-5} = 6$ $(-5)\left(\frac{b}{-5}\right) = (-5)6$ Multiply both sides by -5. b = -30

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Goes in example section

Solve.				
x 4.8	- = 5	5.4		
	x 4.8	=	5.4	
x 4.8	4 .8	=	5.4	■ 4.8
	х	= 2	25.92	

Use the Multiplication Property of Equality. Multiply by 4.8 on both sides.

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Goes in example section

Solve. $\frac{x}{3.5} = 2.4$ $\frac{x}{3.5} = 2.4$ $\frac{x}{3.5} = 2.4$ $\frac{x}{3.5} = 2.4 = 3.5$ x = 8.4

Use the Multiplication Property of Equality. Multiply by 3.5 on both sides.

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Goes in example section

Solve each equation. Check each answer. -400 = 8y



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Goes in the foldable

Solve.

9 = 3.6d

9 = 3.6d				
9 =	3.6d			
3.6	3.6			
$\frac{9}{3.6} =$	d			
2.5 = d	l			

Use the Division Property of Equality. Divide by 3.6 on both sides.

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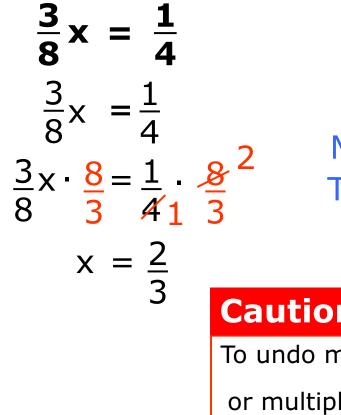
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Think: $9 \div 3.6 = 90 \div 36$

Goes in the foldable

Solve. Write the answer in simplest terms.



Multiply by the reciprocal of $\frac{3}{8}$. Then simplify.

Caution!

To undo multiplying by $\frac{3}{8}$, you can divide by or multiply by its reciprocal, $\frac{8}{3}$. <u>3</u> 8

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Goes in examples

Solve. Write the answer in simplest terms.

$$4x = \frac{8}{9}$$
$$4x = \frac{8}{9}$$
$$4x \cdot \frac{1}{4} = \frac{8}{9} \cdot \frac{1}{4}$$
$$x = \frac{2}{9}$$

Multiply by the reciprocal of 4.

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Then simplify.

Review Video

Class work: Workbook Pg. 109, 115, 121 Choose four problems from each page. You must have one problem from each operation on each page. 1-addition, 1-subtraction, 1multiplication, and 1-division

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