NAME:	PEI	R: LESSON 1.1

- 1. Find two fractions that are equivalent to  $\frac{3}{12}$ .
- 2. Find the GCF of 32 and 48.
- **3.** Write each fraction in simplest form.
  - a.  $\frac{15}{18}$

b.  $\frac{30}{80}$ 

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 1.1

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NAME: PER: LESSON 1.2

Write each mixed number as an improper fraction.

- 1.  $4\frac{1}{2}$
- 2.  $5\frac{2}{3}$
- 3.  $1\frac{9}{10}$

Write each improper fraction as a mixed number.

- 5.  $\frac{17}{6}$  6.  $\frac{32}{5}$

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NAME: PER: LESSON 1.2

Write each mixed number as an improper fraction.

1.  $4\frac{1}{2}$ 

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Core Focus on Rational Numbers & Equations

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Write each mixed number as an improper fraction.

- 1.  $4\frac{1}{2}$ 
  - 2.  $5\frac{2}{3}$
- 3.  $1\frac{9}{10}$

Write each improper fraction as a mixed number.

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NAME: PER: LESSON 1.2

Write each mixed number as an improper fraction.

- 1.  $4\frac{1}{2}$  2.  $5\frac{2}{3}$  3.  $1\frac{9}{10}$

Write each improper fraction as a mixed number.

- 4.  $\frac{21}{2}$  5.  $\frac{17}{6}$  6.  $\frac{32}{5}$

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NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 1.3

<del>----</del>

1.  $\frac{4}{5} + \frac{1}{10}$ 

2. 
$$\frac{1}{2} - \frac{3}{8}$$

3.  $\frac{2}{3} + \frac{3}{4}$ 

4. 
$$\frac{19}{20} - \frac{1}{5}$$

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 1.3

Write each answer in simplest form.

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 1.3

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Core Focus on Rational Numbers & Equations

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$$\frac{19}{20} - \frac{1}{5}$$

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NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 1.4

Find each product or quotient. Write answers in simplest form.

1.  $\frac{2}{5} \cdot \frac{3}{4}$ 

2.  $\frac{1}{2} \div \frac{2}{3}$ 

3.  $\frac{8}{9} \div \frac{2}{3}$ 

**4.**  $\frac{1}{8} \cdot \frac{2}{3}$ 

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Core Focus on Rational Numbers & Equations

PER: LESSON 1.4

Find each product or quotient. Write answers in simplest form.

1.  $\frac{2}{5} \cdot \frac{3}{4}$ 

NAME:

2.  $\frac{1}{2} \div \frac{2}{3}$ 

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Core Focus on Rational Numbers & Equations

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 1.4

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NAME:	PER:	LESSON 1.5

- 1. Find the value of  $4\frac{1}{2} 2\frac{3}{4}$ .
- **2.** Wildy had  $1\frac{5}{6}$  yards of ribbon. She purchased an additional  $3\frac{1}{3}$  yards of ribbon. How many total yards of ribbon does she have?
- **3.** Ivan walked  $6\frac{7}{8}$  miles over 5 days. He walks the same amount each day. How far is his daily walk?
- **4.** Find the value of  $(3\frac{3}{4})(1\frac{1}{5})$ .

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Core Focus on Rational Numbers & Equations

NAME: PER: LESSON 1.5

- **1.** Find the value of  $4\frac{1}{2} 2\frac{3}{4}$ .
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Core Focus on Rational Numbers & Equations

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Core Focus on Rational Numbers & Equations

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NAME: P	PER:	LESSON 1.6
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Find the value of each expression.

**5.** Victor bought a bike for \$179.59. He gave the cashier \$200. How much change did he receive?

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 1.6

Find the value of each expression.

**5.** Victor bought a bike for \$179.59. He gave the cashier \$200. How much change did he receive?

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 1.6

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 1.6

Find the value of each expression.

**5.** Victor bought a bike for \$179.59. He gave the cashier \$200. How much change did he receive?

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Find the value of each	expression.	
<b>1.</b> 8.4(1.3)	<b>2.</b> 5(0.72)	
<b>3.</b> 0.25(1.9)	<b>4.</b> 19.6÷7	
<b>5.</b> 7.2 ÷ 0.3		
	Core Focus on Rational N	
©2013 SM <sup>C</sup> Curriculum  NAME:		Numbers & EquationsLESSON 1.7
NAME: Find the value of each of	PER:	
NAME:	PER:	
NAME: Find the value of each of	PER:	

**PER:** \_\_\_

Core Focus on Rational Numbers & Equations

\_ LESSON 1.7

NAME:

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NAME:	F	PER:	_ LESSON 1.7
Find the value of each	ch expression.		
<b>1.</b> 8.4(1.3)	<b>2.</b> 5(0.72)		
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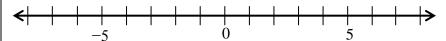
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Core Focus on Rational Numbers & Equations

NAME: PER: LESSON 2.1

**1.** Find the opposite of 5.

2. Graph the following numbers on a number line: 3, -6, 0 and -2.



- **3.** Find the value of |8|.
- **4.** Write an integer to represent the following: The buried treasure was 7 feet below the ground.

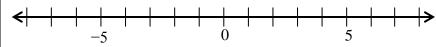
Complete each statement with < or >.

- **5.** 0 -11 6. -45 -54

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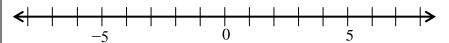
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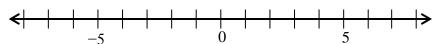
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NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 2.2

Find the value of each expression.

- 1. -5 + 2
- **2.** 9 + (-8)
- 3. -2 + (-10)
- **4.** -1 + (-4) + (-9)
- **5.** 140 + (-122) + (-10)

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Core Focus on Rational Numbers & Equations

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NAME: \_\_\_\_\_ PER: LESSON 2.3

Find the value of each expression.

**2.** 
$$-11 + 7$$

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Core Focus on Rational Numbers & Equations

PER: LESSON 2.3 NAME:

Find the value of each expression.

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: LESSON 2.3

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Core Focus on Rational Numbers & Equations

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NAME:	PER: LESSON 2.4	NAME:	PER: LESSON 2.4
Find each product. 18(3)		Find each product. 18(3)	
<b>2.</b> 5(-2)		<b>2.</b> 5(-2)	
<b>3.</b> -7(-7)		<b>3.</b> -7(-7)	
<b>4.</b> 2(-1)(-4)		<b>4.</b> 2(-1)(-4)	
<b>5.</b> 5(-5)(3)		<b>5.</b> 5(-5)(3)	
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Г			
NAME:	PER: LESSON 2.4	NAME:	PER: LESSON 2.4
Find each product. 18(3)	PER: LESSON 2.4	Find each product. 18(3)	PER: LESSON 2.4
Find each product.	PER: LESSON 2.4	Find each product.	PER: LESSON 2.4
Find each product. 18(3)	PER: LESSON 2.4	Find each product. 18(3)	PER: LESSON 2.4
Find each product. 18(3) 2. 5(-2)	PER: LESSON 2.4	Find each product. 18(3) 2. 5(-2)	PER: LESSON 2.4
Find each product. 18(3) 2. 5(-2) 37(-7)	PER: LESSON 2.4	Find each product. 18(3) 2. 5(-2) 37(-7)	PER: LESSON 2.4
Find each product. 18(3) 2. 5(-2) 37(-7) 4. 2(-1)(-4)	PER: LESSON 2.4	Find each product. 18(3) 2. 5(-2) 37(-7) 4. 2(-1)(-4)	PER: LESSON 2.4

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 2.5

Find the value of each expression.

1. 
$$\frac{-100}{10}$$

**2.** 
$$-24 \div (-3)$$

**3.** 5(-5)

- **4.**  $7 \div (-7)$
- **5.** Write an integer division problem that has a positive answer.
- **6.** Write an integer division problem that has a negative answer.

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 2.5

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Core Focus on Rational Numbers & Equations

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Core Focus on Rational Numbers & Equations

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NAME: PER: I	LESSON 2.6	NAME:	PER: LESSON 2.6
Write each expression as a power. 1. $2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$ 2. $(-1)(-1)(-1)$		Write each expression a 1. $2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$	
Write each power in expanded form and find the va 3. $2^3$ 4. $(-5)^2$	ilue.	Write each power in exp 3. 2 <sup>3</sup>	panded form and find the value.  4. $(-5)^2$
5. $(-3)^3$		5. $(-3)^3$	
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NAME: PER: I	LESSON 2.6	NAME:	PER: LESSON 2.6
Write each expression as a power. 1. $2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$ 2. $(-1)(-1)(-1)$		Write each expression a 1. $2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$	
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5. $(-3)^3$		<b>5.</b> $(-3)^3$	
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NAME:	PER:	LESSON 2.7

Find the value of each expression.

- 1.  $3(-5) + 5^2$
- $2. \ \frac{(-4-2)^2}{3+1}$
- $3. \ \frac{10-2(-2)}{3-4}$

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 2.7

Find the value of each expression.

- 1.  $3(-5) + 5^2$
- 2.  $\frac{(-4-2)^3}{3+1}$
- 3.  $\frac{10-2(-2)}{3-4}$

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Core Focus on Rational Numbers & Equations

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- 3.  $\frac{10-2(-2)}{3-4}$

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PER: NAME: \_\_\_\_\_ LESSON 3.1

Estimate the value of each expression.

2. 
$$-\frac{3}{7} + \frac{9}{10}$$

3. 
$$8\frac{1}{4} - (-2\frac{2}{3})$$

**5.** Matt bought  $2\frac{1}{12}$  pounds of apples,  $1\frac{5}{6}$  pounds of grapes and  $4\frac{2}{3}$  pounds of potatoes. What was the approximate weight of Matt's purchases?

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Core Focus on Rational Numbers & Equations

PER: LESSON 3.1 NAME:

Estimate the value of each expression.

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Core Focus on Rational Numbers & Equations

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3. 
$$8\frac{1}{4} - (-2\frac{2}{3})$$

**3.** 
$$8\frac{1}{4} - (-2\frac{2}{3})$$
 **4.**  $0.13 - 0.925$ 

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Core Focus on Rational Numbers & Equations

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NAME: \_\_\_\_\_

**PER:** \_\_\_\_ LESSON 3.2

**PER: \_\_\_\_ LESSON 3.2** 

Find each sum.

1. 
$$-8.2 + (-2.3)$$

2. 
$$-\frac{2}{9} + \frac{2}{3}$$

3. 
$$0.49 + (-0.6)$$

**4.** 
$$-1\frac{1}{2}+(-2\frac{1}{4})$$

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_
Find each sum.

1. 
$$-8.2 + (-2.3)$$

2. 
$$-\frac{2}{9} + \frac{2}{3}$$

**4.** 
$$-1\frac{1}{2} + (-2\frac{1}{4})$$

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 3.2

Find each sum.

1. 
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2. 
$$-\frac{2}{9} + \frac{2}{3}$$

3. 
$$0.49 + (-0.6)$$

**4.** 
$$-1\frac{1}{2} + (-2\frac{1}{4})$$

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 3.2

Find each sum.

1. 
$$-8.2 + (-2.3)$$

2. 
$$-\frac{2}{9} + \frac{2}{3}$$

**4.** 
$$-1\frac{1}{2} + (-2\frac{1}{4})$$

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NAME:	PER:	LESSON 3	•
NAME:	PLK:	LESSUN 3	

Find each difference.

2. 
$$-\frac{3}{4} - \frac{3}{8}$$

3. 
$$-3\frac{2}{3}-(-1\frac{1}{6})$$

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 3.3

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 3.3

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NAME:	PER:	LESSON 3.4
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Estimate each product or quotient using compatible numbers.

1.  $\frac{1}{11}(57)$ 

**2.**  $-31.82 \div (-3.19)$ 

3.  $11.4 \div (-1.78)$ 

**4.**  $-\frac{1}{6}(22\frac{3}{4})$ 

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NAME:	PER:	LESSON 3.5

Find each product.

- **1.** -0.6(-0.2)
- **2.**  $\frac{7}{8}\left(-\frac{2}{3}\right)$
- 3.  $-\frac{1}{3}\left(4\frac{1}{5}\right)$

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 3.5

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Core Focus on Rational Numbers & Equations

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NAME:	PER:	LESSON 3.6
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Find each quotient.

1. 
$$-\frac{5}{9} \div \left(-\frac{1}{3}\right)$$

2. 
$$120.8 \div (-0.4)$$

3. 
$$-6\frac{3}{4} \div \frac{2}{3}$$

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 3.6

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NAME: PER: LESSON 4
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- 1. Evaluate  $\frac{x}{4} 9$  when x = 24.
- **2.** Write an algebraic expression for the phrase "seven less than x".
- **3.** Determine if 3 is the solution of the equation 1-2x=-7.

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Core Focus on Rational Numbers & Equations

## NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 4.1

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Core Focus on Rational Numbers & Equations

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Core Focus on Rational Numbers & Equations

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NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 4.2

Solve each equation. Show your work and check your solution.

1. x + 39 = 150

**2.**  $\frac{d}{5} = -3$ 

- 3. 12.9 = y 14.2
- **4.** -5t = 55

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Core Focus on Rational Numbers & Equations

NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 4.2

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NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 4.3

Solve each equation. Show your work and check the solution.

1. 
$$2x - 8 = 12$$

2. 
$$-5 = \frac{y}{3} + 1$$

3. 
$$0.6m + 4 = 7$$

**4.** 
$$-8 + \frac{b}{6} = 2$$

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Core Focus on Rational Numbers & Equations

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NAME:	<b>PER:</b>	LESSON 4.4
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Use the Distributive Property to simplify each expression.

1. 3(x-5)

**2.** -2(6x+1)

Solve each equation. Show your work and check your solution.

3. 8(x-1) = 16

**4.**  $-20 = \frac{1}{2}(6x + 2)$ 

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Core Focus on Rational Numbers & Equations

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NAME: \_\_\_\_\_ PER: LESSON 4.5

Simplify each algebraic expression.

1. 
$$7x - 2x + x$$

2. 
$$-9+5y-2y+9$$

**3.** 
$$18w - 5d + 8d - 21w$$
 **4.**  $4x + 6(x + 2) + 3$ 

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Core Focus on Rational Numbers & Equations

PER: LESSON 4.5 NAME:

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Core Focus on Rational Numbers & Equations

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$$4x + 6(x+2) + 3$$

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Solve each equation. Check your solution.

1. 4(x-2)+7=35

**2.** 3y + 5 + y + 10y = 19

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Core Focus on Rational Numbers & Equations

NAME.	DED.	I ESSON 4.6

Solve each equation. Check your solution.

1. 
$$4(x-2)+7=35$$

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Core Focus on Rational Numbers & Equations

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Core Focus on Rational Numbers & Equations

NAME: PER: LESSON 4.6

Solve each equation. Check your solution.

1. 
$$4(x-2)+7=35$$

**2.** 
$$3y + 5 + y + 10y = 19$$

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NAME:	<b>PER:</b>	LESSON 4.7
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Solve each equation. Check your solution.

1. 
$$8x + 12 = 3x + 37$$

**2.** 
$$-11+p=3p-3$$

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Core Focus on Rational Numbers & Equations

NAME:	<b>PER:</b>	LESSON 4.7
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Core Focus on Rational Numbers & Equations

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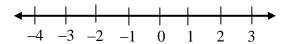
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NAME: \_\_\_\_\_ PER: \_\_\_ LESSON 4.8

1. Write an inequality for the graph.



- 2. Write an inequality for the statement: Lance walked more than 2 miles (*m*).
- 3. Solve the inequality and graph the solution: 2x+7<3

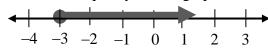


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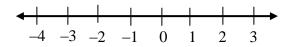
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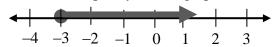
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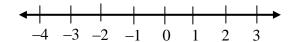
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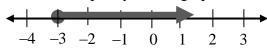


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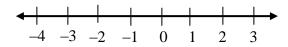
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