Activity #: \_\_\_\_\_

Ms. Napolitano

I can use the least common multiple to add and subtraction fractions ccss: 6.NS.4

## HOMEWORK (DAY 1)

MITLVA

Use the LCD to rewrite the fractions with the same denominator.

1. 
$$\frac{3}{4}$$
,  $\frac{1}{10}$ 

2. 
$$\frac{2}{3}$$
,  $\frac{5}{8}$ 

3. 
$$\frac{5}{14}$$
,  $\frac{1}{6}$ 

**4.** 
$$\frac{1}{3}$$
,  $\frac{5}{6}$ ,  $\frac{4}{9}$ 

Copy and complete the statement using <, >, or =.

5. 
$$\frac{3}{4} - \frac{2}{3}$$

**6.** 
$$\frac{5}{12} \stackrel{?}{--} \frac{4}{15}$$

7. 
$$3\frac{5}{18} - \frac{?}{24}$$

8. 
$$\frac{18}{8}$$
  $\frac{?}{}$   $2\frac{1}{4}$ 

Add or subtract. Write the answer in simplest form.

9. 
$$\frac{1}{2} + \frac{3}{5}$$

**10.** 
$$\frac{4}{9} - \frac{1}{4}$$

11. 
$$\frac{5}{8} - \frac{3}{14}$$

**12.** 
$$\frac{7}{15} + \frac{3}{10}$$

**13.** 
$$4\frac{1}{8} + 3\frac{3}{4}$$

**14.** 
$$5\frac{7}{12} - 2\frac{2}{9}$$

**15.** 
$$1\frac{1}{3} + \frac{6}{7}$$

**16.** 
$$4\frac{11}{12} - 2\frac{3}{20}$$



	Date:
	-Activity #:
Name:	Latermine an equivalent fraction.
Ms. Napolitano	denominator to determine
I can use the least commo	denominator to determine an equivalent fraction. <u>ccss</u> : 6.Ns.4

# HOMENORK ICLA

Least Common Denominator (LCD) Find the least common multiple for the following numbers

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		3 and 12		-4
1				
8		6 and 8		
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9		8 and 12		
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		3, 4, and 5		
		Military -		

**Build Equivalent Fractions with the LCD** First determine the least common denominator (LCD) for the below fractions.

Then build up the fractions so that they have this LCD.

FIISt determine	en that they have und	2 months on S
Then build up the fractions		Equivalent Fractions
	Least Common	with the LCD
Fractions	Denominator (LCD)	
1/3 and 1/2		
2/3 and 3/4		
1/5 and 2/7		
1/3 4114		
2/5 and 1/6		
2/3 and 2/5		
3/7 and 2/9		
3// 2110 2		
1/2, 1/3 and 1/4		
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### EMORY

	Date:
	Unit 2
Name:	
Ms. Napolitano	

### **Homework Day 2**

Show all of your work on a separate sheet of paper.

Identify the terms and like terms in the expression.

1. 
$$1.3x - 2.7x^2 - 5.4x + 3$$

**2.** 
$$10 - \frac{3}{10}m + 6m^2 + \frac{2}{5}m$$

Simplify the expression.

3. 
$$-\frac{15}{4}b + \frac{5}{6}b$$

**5.** 
$$4(5.8 - 9x) + 8.2 + 22x$$

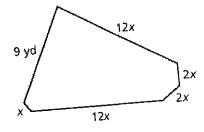
7. 
$$v + 13 - 8(v + 2)$$

**4.** 
$$60m - 15(4 - 8m) + 20$$

**6.** 
$$9y - 15y + 12 - 6y$$

8. 
$$\frac{5}{3}(5x+9)+\frac{4}{5}(1-9x)$$

9. Write an expression in simplest form that represents the perimeter of the polygon.



Draw a diagram that shows how the expression can represent the area of a figure. Then simplify the expression.

**10.** 
$$8(3x-1)$$

11. 
$$(5+2)(x+3x)$$

- 12. Danielle is x years old. Her sister is 5 years older and her brother is half Danielle's age. Write an expression in simplest form for the sum of their ages.
- 13. The length of a rectangular field is 30 more than twice its width. Write an expression in simplest form for the perimeter of the field in terms of its width w.

er en Mili

$$A - \frac{7}{12}$$

$$-\frac{3}{28}$$

$$c = \frac{3}{28}$$

D 
$$\frac{7}{12}$$

What is the value of the expression?

$$\frac{8}{15} \div (-0.35)$$

$$A = \frac{75}{14}$$

$$B = \frac{32}{21}$$

$$c = \frac{21}{32}$$

$$D = \frac{14}{75}$$

t is the value of the expression below?

$$\left(3\frac{1}{2}-9\frac{3}{4}\right)\div\left(-2.5\right)$$

$$3 - 2.3$$

Evaluate.

$$\left(-\frac{7}{10}+0.15\right)\div\left(-0.125\right)$$

- $A = \frac{2}{9}$
- $B \frac{1}{8}$
- $C = \frac{1}{8}$

Amber determined that the expression  $\frac{-\frac{1}{2}}{-\frac{41}{82}}$  is equivalent to  $\frac{15}{82}$ . Which statement describes the process Amber could have used?

She divided  $-\frac{1}{2}$  by -15 and then divided the result by 41.

She multiplied  $-\frac{1}{2}$  by -15 and then divided the result by 41.

She divided  $-\frac{1}{2}$  by -15 and then multiplied the result by 41.

She multiplied  $-\frac{1}{2}$  by -15 and then multiplied the result by 41.

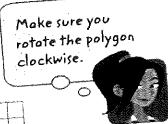
ain the steps needed to determine the value of the expression shown below. Be to provide the correct value of the expression in your explanation.

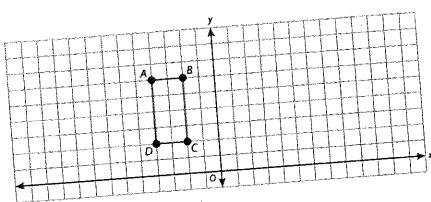
$$\frac{\frac{1}{2}}{-\frac{2}{5}} + \left(-\frac{1}{4}\right)$$

#### **HOMEWORK**

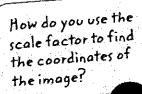
Jans

Polygon ABCD is shown on the coordinate plane. Sketch the image after it is rotated 90° clockwise about O and then dilated with scale factor 2 and center O.





The coordinates of  $\triangle DEF$  are D(-4, 4), E(2, 4), and F(0, 2). The triangle is dilated with scale factor  $\frac{1}{2}$  and center O. What are the coordinates of the vertices of the image of  $\triangle DEF$ ?



- **A** (2, -2), (-1, -2), (0, -1)
- **B** (-8, 8), (4, 8), (0, 4)
- **c** (-2, 2), (1, 2), (0, 1)
- D (4, -4), (4, 2), (2, 0)

Sue chose **A** as the correct answer. How did she get that answer?

### Callelin

Graph the dilated image of quadrilateral MNOP using a scale factor of 1/3 and the origin as the center of dilation. M':\_\_\_\_



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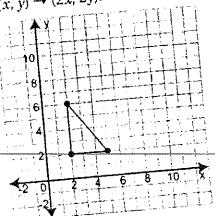
The table below shows the coordinates of triangle RST and the coordinates of R' in triangle R'ST'. Triangle R'ST' is a dilation of triangle RST.

Triangle RST		Triangle R'S'T'	
R	(-2, -3)	R*	(-6, -9)
5	(0, 2)	S'	
	(2, -3)	T	

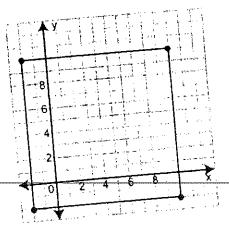
#### Part A

What are the coordinates of point 5' and point T'?

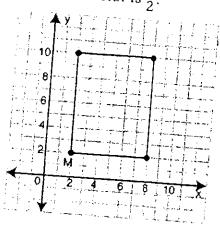
1. The center of dilation is the origin and the scale factor is 2. Use the rule  $(x, y) \rightarrow (2x, 2y).$ 



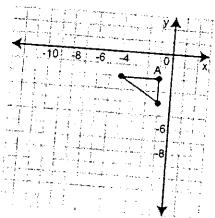
2. The center of dilation is the origin and the scale factor is  $\frac{1}{2}$ .



3. The center of dilation is point M and the scale factor is  $\frac{1}{2}$ .



4. The center of dilation is point A and the scale factor is 3.



The following sets of points are the vertices of figures and their dilation images. For each two sets of points, give the scale factor.

- **5.** A(1, 1), B(2, 6), C(6, 2) A'(4, 4), B'(8, 24), C'(24, 8)
- **6.** R(-3, -9), S(-6, 3), T(-3, 3) R'(-1, -3), S'(-2, 1), T'(-1, 1)

#### **ROUP WORK**

is the diagram below,  $\triangle PQR$  is similar to  $\triangle LMN$ . Describe the sequence of ansformations that transforms  $\triangle PQR$  to  $\triangle LMN$ .

