

Name \_\_\_\_\_

Homework # \_\_\_\_\_

Review Test #2

1. Prime factor each number.

72

66

2. Find the Prime Factorization, GCF and LCM of each set of numbers.

90, 108

42, 105      GCF \_\_\_\_\_

LCM \_\_\_\_\_

GCF \_\_\_\_\_

LCM \_\_\_\_\_

3. Name the property for each statement

a.  $(-5) + 5 = 0$

\_\_\_\_\_

b.  $6(x - 2) = 6x - 12$

\_\_\_\_\_

c.  $8 \cdot 1 = 8$

\_\_\_\_\_

d.  $4 + 5 = 5 + 4$

\_\_\_\_\_

e.  $7 + 0 = 7$

\_\_\_\_\_

f.  $3(2 \cdot 4) = (3 \cdot 2)4$

\_\_\_\_\_

g.  $\frac{1}{3} \cdot 3 = 1$

\_\_\_\_\_

4. Simplify each expression.

$18 + 6 \div 3 \cdot 2$

$x(y - 2)$  when  $x = 2$  and  $y = 8$

$|-13| + 7$

$|-4 + 8| - 10$

5. List the integers in order from least to greatest.

$-3, -45, -5, -21, -17$

\_\_\_\_\_

6. Perform the indicated operations.

$(-3)(5)$  \_\_\_\_\_

$(-3)(-7)$  \_\_\_\_\_

$5 - 7$  \_\_\_\_\_

$4 + (-6)$  \_\_\_\_\_

$8 \div (-4)$  \_\_\_\_\_

$(-7) + (-12)$  \_\_\_\_\_

$3 - (-4)$  \_\_\_\_\_

$(-24) \div (-3)$  \_\_\_\_\_

7. Label each number with all of the sets to which it belongs. (counting, whole, integer, rational, irrational, real)

a.  $-6$  \_\_\_\_\_

b.  $\frac{-3}{4}$  \_\_\_\_\_

c.  $27$  \_\_\_\_\_

d.  $\pi$  \_\_\_\_\_

e.  $0$  \_\_\_\_\_

f.  $0.\overline{13}$  \_\_\_\_\_

8. Identify the quadrant/axis each point lies in/on.

a.  $(-5, 7)$  \_\_\_\_\_

e.  $(4, 0)$  \_\_\_\_\_

b.  $(0, -4)$  \_\_\_\_\_

f.  $(5, -4)$  \_\_\_\_\_

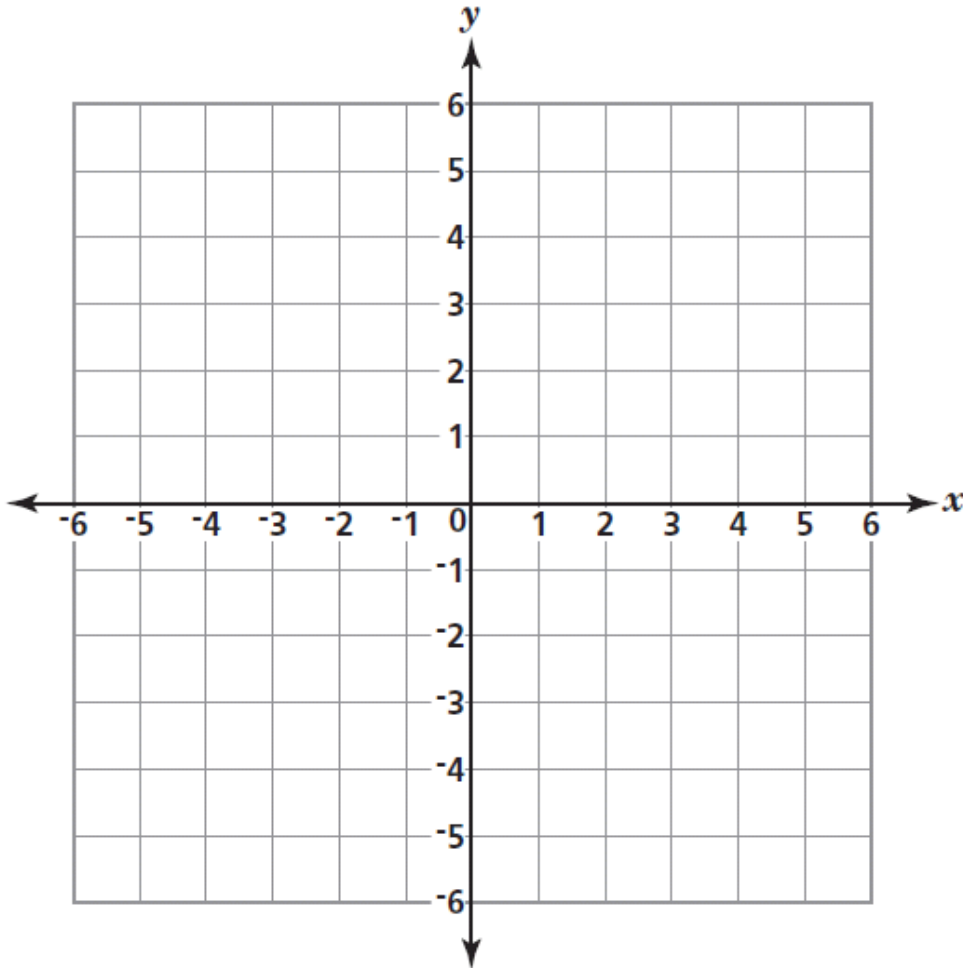
c.  $(-3, -2)$  \_\_\_\_\_

g.  $(-3, -3)$  \_\_\_\_\_

d.  $(8, 3)$  \_\_\_\_\_

h.  $(-1, 7)$  \_\_\_\_\_

9. Plot, label and connect the points in order to create a polygon on the coordinate system below.  $A(-2, -1)$ ,  $B(4, -1)$ ,  $C(4, 5)$ ,  $D(-2, 5)$



The polygon is a \_\_\_\_\_

Determine the area and the perimeter of the polygon. Show work below.  
Remember to do FSA (Formula, Substitution, Arithmetic)