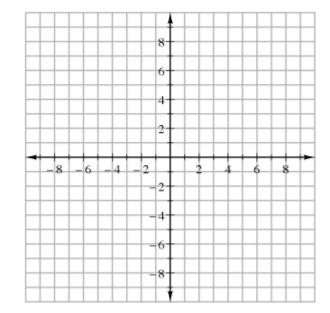
1. Plot the following points, and connect them in order. (0, 2), (8, 2), (8, -7), (-6, -7), (-6, -2), (0, -2), (0, 2).Find the area of your shape, in square units.



2. Find the distance between each pair of points.

- **a)** (5, 3) and (5, 10)
- **b)** (-9, 2) and (-9, -8)
- c) (-1, 7) and (-7, 7)

3. Make a portion web for each number:

- **a**) 1%
- **b**) $\frac{19}{25}$
- **c**) 0.9
- \mathbf{d}) $\frac{1}{9}$

4. a) Find the area of this algebra tile arrangement.

- **b)** Find the perimeter of this algebra tile arrangement.
- c) If the algebra tiles were rearranged into a different shape, how would the area change?

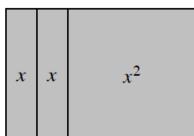


5. Find the perimeter of each shape. Combine like terms.

a)

х	
x^2	

b)



6. Simplify each expression by collecting like terms.

- **a)** $x + 5 + 7x^2 + 4x$ **b)** $4x^2 2x^2 + (-6) + 3$
- **c)** 2x 6 3 + x **d)** (-2x) + 5 + 3x 4x + (-1) + (-x)

7. Name the mathematical property that justifies each equation.

$$\mathbf{a)}\ 6(237) = 6(200) + 6(30) + 6(7)$$

b)
$$15 + 5 + 32 - 2 = (15 + 5) + (32 - 2)$$

$$\mathbf{c)}\ (45)(54) = (54)(45)$$

d)
$$98 + 576 + 2 = 98 + 2 + 576$$

8. Rainer bought 5 pounds of gummi worms at the store for \$4.90. What was the unit rate?

9. Simplify each expression. Show your work.

a)
$$3\frac{1}{3} \cdot \frac{1}{4}$$

b)
$$5 \div 1\frac{3}{7}$$

c)
$$1\frac{3}{7} \div 5$$

b)
$$5 \div 1\frac{3}{7}$$
 c) $1\frac{3}{7} \div 5$ **d**) $2\frac{1}{2} \cdot 1\frac{1}{3}$

10. Evaluate each expression when a = -8, b = 7, x = 10, and y = -6.

$$\mathbf{a}$$
) $\mathbf{b} - \mathbf{x} - \mathbf{y}$

b)
$$|a - b| + |x - y|$$

d) $y^3 - y^2$

c)
$$-xy^2$$

d)
$$y^3 - y^2$$

11. Simplify each expression.

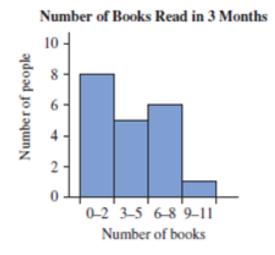
a)
$$7(x + 8)$$

b)
$$7(2x-3)$$

c)
$$11(4 + y)$$

12. Use the histogram to the right to answer the questions.

- a) How many people read more 6 or more books?
- **b)** How many people read less than 2 books?
- c) How many people read exactly 5 books?
- **d)** How many people were counted for this histogram?
- e) What percent of people read 9-11 books?



13. Graph the data on the histogram below. Amount of time spent solving a math puzzle (minutes) by study teams: 3, 15, 18, 14, 10, 14, 19, 8, 14, 14, 15, 19, 9

