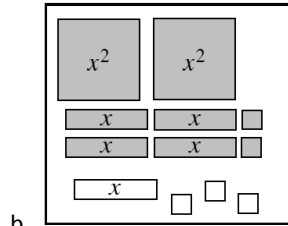
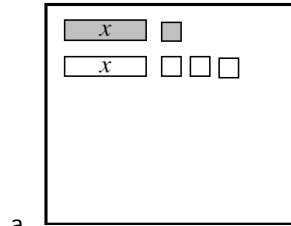


Name: _____

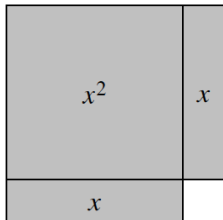
Date: _____ Per: _____

Lesson 6.1.1 Homework

6-6. Write the expression shown on each of the Expression Mats below. Then simplify them by making zeros and combining like terms.



6-7. Which expressions are equivalent to the perimeter of the shape? How do you know?



- a. $x + 3 + 3x + 1$
- b. $2x + 4 + x$
- c. $4x + 4$
- d. $2x + 2 + 2x + 2$

6-8. Simplify the following expressions.

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

b. $\frac{7}{8} - \frac{2}{3}$

c. $\frac{1}{3} - \frac{5}{6}$

d. $1\frac{2}{3} + \left(-\frac{2}{5}\right)$

e. $\frac{4}{7} - \left(-\frac{3}{8}\right)$

f. $-4\frac{1}{2} + 3\frac{1}{9}$

6-9. Desmond is rolling a standard six-sided number cube. He plans to roll it 72 times.

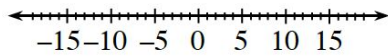
- a. About how many times would you expect Desmond to roll a 4? Why?
- b. About how many times would you expect him to roll an even number? Why?
- c. Desmond kept track of his results for all 72 rolls. The table at right shows some of his results.
- d. Based on his partial results, how many times did he roll a 5 or a 6?

| Result | Number of Outcomes |
|--------|--------------------|
| 1 | 9 |
| 2 | 14 |
| 3 | 11 |
| 4 | 8 |

6-10. In parts (a) through (c) below, you will see pairs of quantities. For each pair of quantities, use words to write a sentence that describes the relationship. For example, "\$5, \$8" could be, "\$8 is three more than \$5."

- a. \$13, \$39
- b. 25 feet, 17 feet
- c. 38 lbs., 19 lbs.

6-11. Use the number line to help you fill in < (less than) or > (greater than) on the blank line.



- a. -5 ___ -2
- b. 8 ___ -1
- c. -5 ___ 0
- d. -15 ___ -14