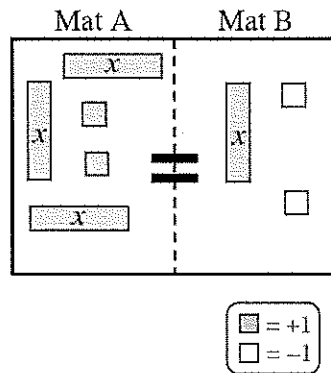


Chapter 6 Closure

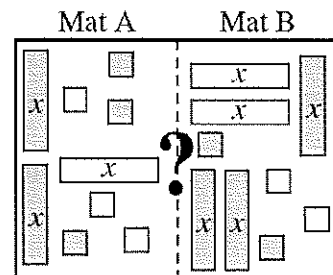
CL 6-140. Consider the equation mat at right.

- a. Write the original equation represented.
- b. Simplify as needed. Record all steps of your work. What value of x will make the two sides equal?



c. Check your solution.

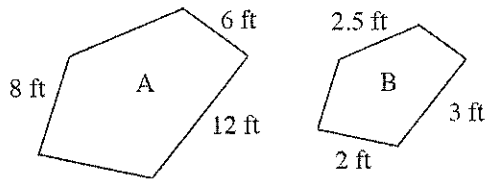
- **CL 6-141.** Write the expressions for the Expression Mats at right.



- A. Simplify each mat to determine which side is greater.

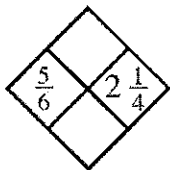
B. If $x = 4$, would your answer to part (a) change? Explain.

- **CL 6-143.** The shapes below are similar.

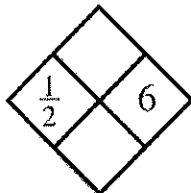


- What is the scale factor from shape A to shape B?
 - a. What are the lengths of the missing sides?
- **CL 6-144.** Solve this problem by using the 5-D Process or writing and solving an equation. No matter which method you use, be sure to define your variable and write an equation to represent the relationship.
- A rectangle has a perimeter of 30 inches. Its length is one less than three times its width. What are the length and width of the rectangle?
- **CL 6-145.** Kindra would like to have at least \$1500 in her savings account.
 - a. If she starts with \$61 in her savings account, write an inequality to show how much she wants to have.
 - a. How much does Kindra need to save? Show your solution as an inequality with symbols, in words, and on a number line.
- **CL 6-147.** Copy and complete each of the Diamond Problems below.

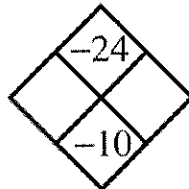
a.



b.



c.



d.

