

Solving Quadratic Equations Using Concrete Models

Name:

Date:

Vocabulary Review:

In your own words, define each of the following vocabulary terms.

- Quadratic Equation

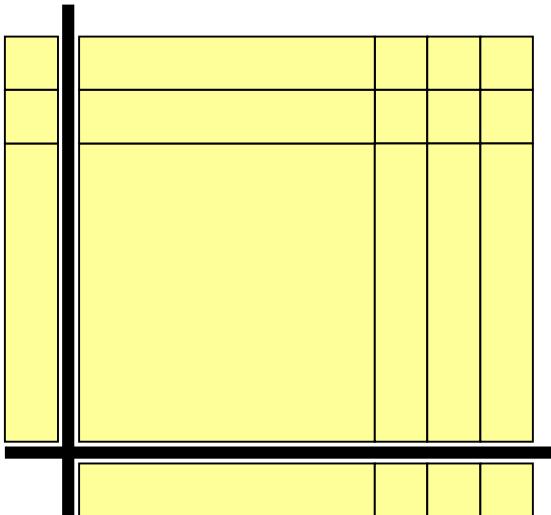
- Zeros

- Constant

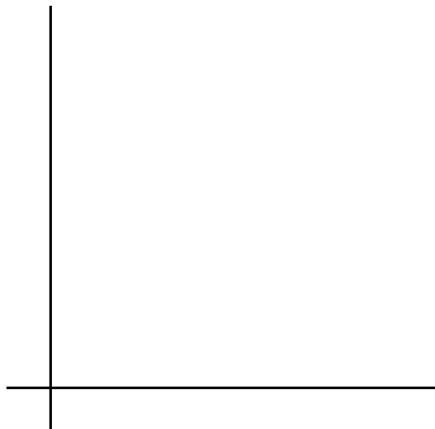
Apply New Learning:

1. Explain how algebra tiles can be used to factor a quadratic equation. Then describe how the factors can be used to solve a quadratic equation.

2. What is product of $(x + 2)(x + 3)$? The tile diagram is shown below.

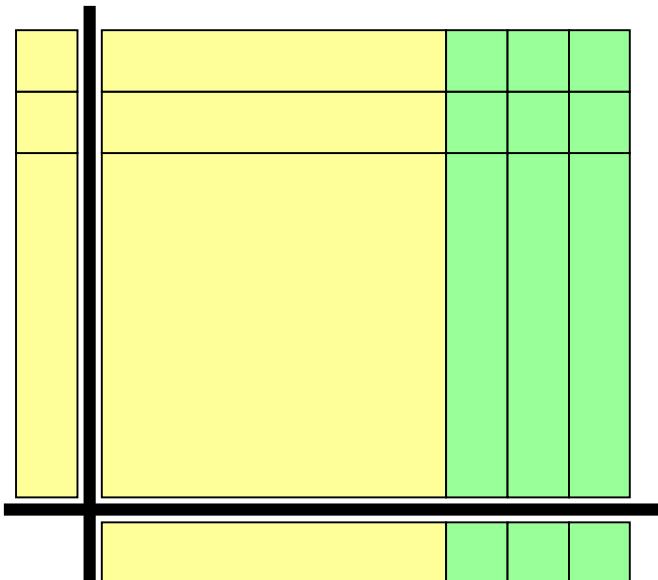


3. Use tiles to model the problem $(3x - 2)(2x - 2)$.



4. What is the product of $(3x - 2)(2x - 2)$?

5. Factor $x^2 - x - 6$. The tile diagram is shown below.



6. Use the factors to write an equation.

7. Solve for x.