

NAME \_\_\_\_\_

**Module 13** Solving Quadratic Equations  
of One Variable  
**Lesson 3** Solving Quadratic Equations  
by Factoring

**guided  
notes**

**Lesson Objective**

- Solve quadratic equations by factoring.

The *Zero Product Property* says if  $ab = 0$ , then  $a = 0$  \_\_\_\_\_

or  $b = 0$  \_\_\_\_\_.

To solve a quadratic equation by factoring:

- Make one side of the equation equal to **zero** \_\_\_\_\_.
- **Factor** \_\_\_\_\_.
- Set each factor equal to **zero** \_\_\_\_\_.
- **Solve** \_\_\_\_\_ each equation separately.

1 **Solve:**  $(x - 8)(x + 2) = 0$

**{8, -2}**

2 **Solve:**  $3x^2 + 7x - 10 = -4$

**$\left\{\frac{2}{3}, -3\right\}$**

3 **Solve:**  $2x^2 - 7x = 3x$

**{0, 5}**

