

## Factor Solve and Check Quadratics: Apply and Create



Name: \_\_\_\_\_ Date: \_\_\_\_\_

Use what you learned to explain, construct or apply an idea.

A factor can be zero

$x^2 - 5x + 6$  factors as  $(x - 2)(x - 3)$ . If the product is zero,  $x$  can be 2 or 3.

1. A rectangle has sides  $x$  and  $x + 1$  and area 12. Find its positive side lengths.

---

2. Why cannot you set each factor to zero when  $(x - 2)(x - 3) = 6$ ?

---

---

---