

Factor Solve and Check Quadratics



Name: _____ Date: _____

Use the material to work through each task. Show the requested response.

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. Factor $x^2 - 7x + 12$.

2. Solve $x^2 - 7x + 12 = 0$.

3. Solve $x^2 - 9 = 0$.

4. Check $x = 2$ in $x^2 - 5x + 6 = 0$.

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

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