

#### Examples & Questions Examples 1

Q: Why do you have to confirm that the solution is valid in the original equation? Q: Why do you multiply both sides of the equation by the common denominator?

# Examples 2

Q: Is there another way to solve this problem? Explain. Q: How could you solve this equation without multiplying both sides by <u>6x</u>?

## Examples 3

Q: How do you now that the common denominator (x-5)(x-3) will divide out

 $x^2 - 8x + 15$ ?

Q: Are all values that make the value of the denominator 0 extraneous solutions? Q: How can you use a graph to verify your solutions?

## Examples 4

Q: How can you determine values that cannot be solutions to the equation without solving? Q: Do you have to multiply both sides of the equation by the least common denominator to eliminate the fractions?

## Examples 5

Q: What does each side of he equation represent?

Q: Why is the 1 added to  $\frac{16}{5+c}$  rather than  $\frac{6}{5-c}$ ?

Q: Would *c*=-25 be an extraneous solution if you were solving the problem without context?

#### Practice and Problem Solving

Complete MathXL for School: Practice and Problem Solving (online) Complete MathXL for School: Enrichment (online)

Challenge: #8,13, 30,33 – key will be posted in Power School Learning.

Lesson Quiz 4.5