

Strand: _____ **Numbers and Operations** _____ **Name:** _____

Skill Addressed: Cancelling as it relates to Multiplying Fractions **Blk:** ____

Activity: *Simplifying Rational Expressions using Equivalent Fractions*

Write six fractions that are equivalent to 2:

Using one of your fractions as an example, demonstrate the process that you would use to make your fraction simplify back to 2.

Explain what you did in words: _____

Now, simplify the following rational expressions using your method:

a) $\frac{6x}{24a}$

b) $\frac{6x + 8}{24a}$

Explain how these examples are similar or different from simplifying the fractions you made to equal 2 above.

c) If $\frac{6x}{3} = \frac{48}{12}$, solve for x.

Use the same method to solve for x. Explain why using equivalent expressions for each side of the equation works. _____
