Name: _____                    Date: _____

| **Learning Goal 5.3** | I can multiply and divide polynomials. |
|---|---|

- If you multiply something by 2, that means

**Example** Expand and simplify, if possible.

a. $2(3x^2)$

b. $2(3x^2 + 6)$

c. $2(3x^2 - x + 6)$

Invert it!  For multiplication, we were given the

and asked to find the

For division, we are given the

and asked to find the

**Example** Simplify where possible.

    a. $\dfrac{4x^2}{2}$

    b. $\dfrac{4x^2 + 6x}{2}$

    c. $\dfrac{4x^2 + 6x - 10}{2}$

A harder (or extending) problem would be

Find the greatest common factor of the following expression, then factor the expression.

$$3x^2 - 6$$