## Lesson 4 - Dividing Polynomials:

When dividing a polynomial by a constant or a monomial, we "distribute" the denominator to each term in the numerator.

Where else do we see something like this:

Example:

$$
\frac{\left(14 t^{2}-35 t+21\right)}{7}=
$$

Is this any different if there is a variable in the denominator?
$\frac{24 b^{2} c-15 b c+6 c}{3 c}=$

More Examples:
$\frac{16 n^{4}-4 n^{3}}{-2 n^{2}}=$
$\frac{-5\left(2 g^{3}-4 g^{5} h\right)}{-2 g^{2}}=$

If the Area of a rectangle is $32 m^{2}-8 m$ and the short side is $4 m$, find the long side:

