

3.7 Polynomials – Dividing a Polynomial By a Monomial – Dividing by Variables**Pg 142-145****Draw the algebra tiles or area model for $2x(4x - 2)$ and determine the product:**

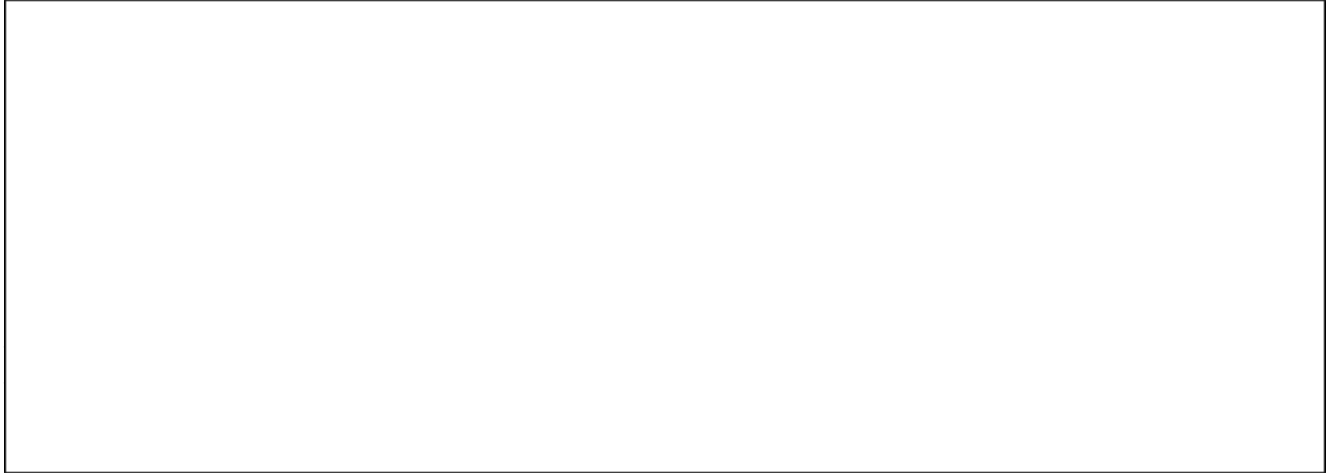
To **divide a polynomial by a monomial**, we **reverse** the process.Determine the **quotient** of $\frac{8x^2}{4x}$ **Step 1:** First, arrange ____ x^2 and ____ tiles where one of the dimensions is ____

Step 2: On the other dimension, the **guiding tiles** must **also** be ____ tiles, since $(x)(x) = x^2$ There are ____ of these guiding x – tiles.

Therefore, $(8x^2) \div x^2 =$ _____, since $(x)(\text{_____}) = 8x^2$

Ex. Determine the quotient of: $\frac{-6w^2+9w}{3w}$

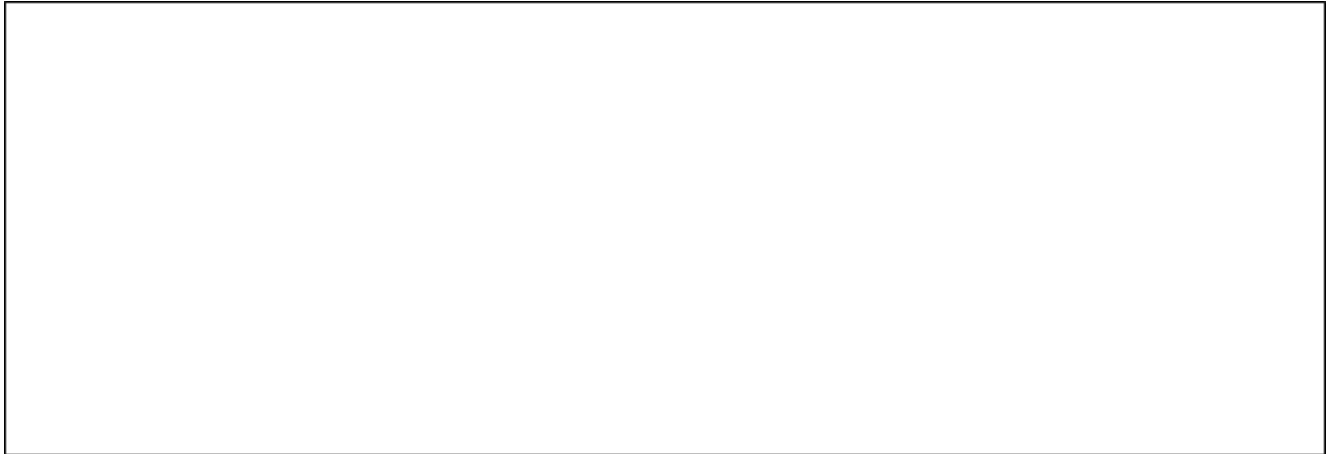
Arrange _____ $-w^2$ tiles and 9 _____ tiles in a rectangle where one dimension is _____



a) $\frac{-10m^2}{2m}$

Use algebra tiles

Think multiplication



$$\frac{30k^2-18k}{-6k}$$

Think multiplication

Write the quotient as the sum of two fractions

