

Multiplication and Division of a Polynomial by a Constant





Things you already know!!

$$4 \times 5 =$$

$$(4)(5) =$$

$$4(5) =$$



Things you need to know :)

$$(4)(m) =$$

$$6(z) =$$


$$-5(3x^2)$$

Example 1. Multiply

$$4(6w)$$

Example 2. Multiply

$$4(6w - 11)$$


$$4(6w - 11)$$

Multiply each term in the brackets by the term on the outside of the brackets.

Example 3. Multiply

$$4(6w^2 + 7p - 11)$$



Things you already know!!

$$30 \div 3 =$$

$$\frac{30}{3} =$$

Things you need to know :)

$$60z \div 15 =$$

$$\frac{48m}{4} =$$

Example 1. $\frac{100r^2}{5}$

Example 2. $\frac{100r^2 + 50m}{5}$

Separate the polynomial to make a sum of fractions.

$$\frac{100r^2}{5} + \frac{50m}{5}$$

Example 3. $(100r^2 + 50m - 65z) \div (-5)$

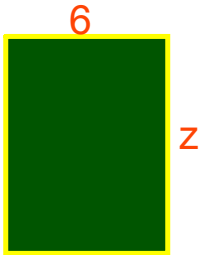
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A = length x width

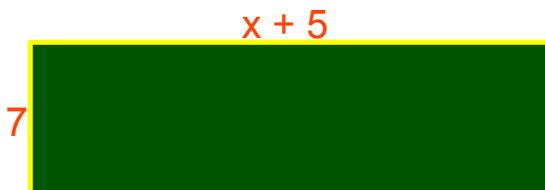
A = (l)(w)

Write the multiplication statement
for the area of each rectangle.

A = (l)(w)



A = (l)(w)



$$3(2x - 6y + 2z)$$

Try these:

$$\frac{36p + 45q - 81}{9}$$

$$(30m - 15a + 9t - 54h) \div (-3)$$

$$-4(6z - 9)$$

$$(11y^2 - 8y + 10)(5)$$

$$(49t^2 - 7) \div (7)$$

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