Warm Up Grade 9

$y^7 \cdot y^2 = y^9$

$x \cdot x = x^2$

$2x + 2x = 4x$

$9y - 3y = 6y$

Determine the product or the quotient.

a) $(9r^3xy)(4r^2y - 2x)$

$36r^5xy^2 - 18r^3x^2y$

$\frac{y^9}{y^2} = y^7$

b) $(-7m^4n^2 + 2mn - 10n^2)(-3mn)$

$(-3mn)(-7m^4n^2 + 2mn - 10n^2)$

$21m^5n^3 - 6m^2n^2 + 30mn^3$

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c) $\frac{80t^5 + 14t^4 - 18t}{-2t}$

$\frac{80t^5}{-2t} + \frac{14t^4}{-2t} - \frac{18t}{-2t}$

$-40t^4 - 7t^3 + 9$

$\frac{1}{1}$ $\frac{3}{3}$

$\frac{1409}{1409}$

$\frac{\heartsuit}{\heartsuit}$

$\frac{y^3}{y^3}$

$\frac{2x + x}{x}$

$\frac{2x}{x} + \frac{x}{x}$

$2 + 1$

d) $(3x^2 - 12x + 7) - (5x^2 - 12x - 8)$

$(3x^2 - 12x + 7) + (-5x^2 + 12x + 8)$

$3x^2 - 12x + 7 - 5x^2 + 12x + 8$

$3x^2 - 5x^2 - 12x + 12x + 7 + 8$

$-2x^2 + 15$

e) $(-12x^2 + 6x - 5) + (4x^2 - 8x - 1)$

Homework

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Algebra Tiles

Multiplication

$(2x)(4x) = 8x^2$

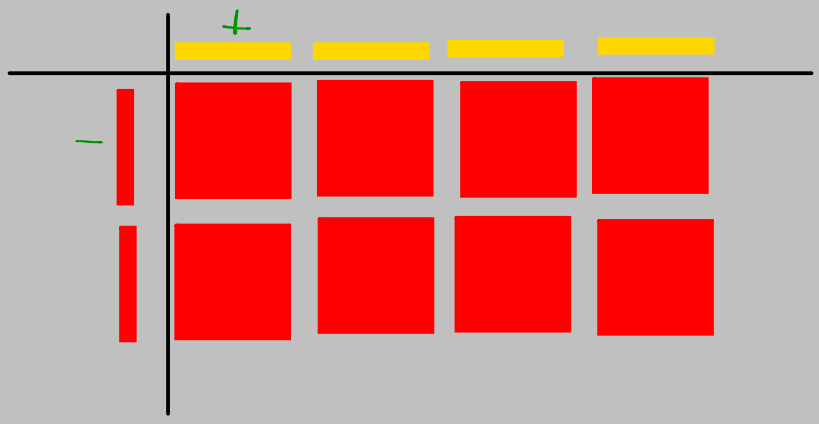
$8x^2 \div 2x$
Area Side length

Algebra Tiles

Multiplication

$(-2x)(4x) = -8x^2$

side side



Algebra Tiles

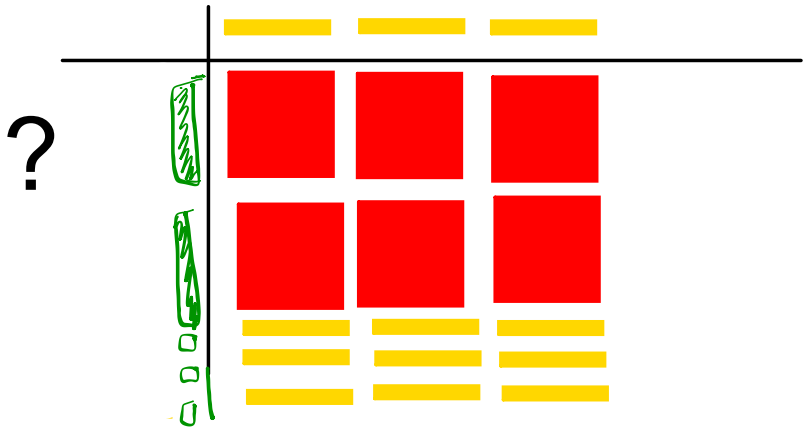
Determine the product of each

$(2x)(3x - 4)$

Algebra Tiles

Division $\dfrac{(-6x^2 + 9x)}{(3x)}$ Area / side

$x \cdot \square = x$



Homework / Class work

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#16(acfh), #19, #21(cd), #25, #22(try)