2. a)
$12d \div 4$

$\frac{12d}{4}$

Warm-Up Quiz

$-2(-7h+4$

$14h-8$

Warm-Up

January 8, 2020

A. $-4(3x^2 + 5x - 3)$

$-12x^2 - 20x + 12$

B) $\dfrac{-12x^2 + 4x - 16}{4}$

$-\dfrac{12x^2}{4} + \dfrac{4x}{4} - \dfrac{16}{4}$

$-3x^2 + 1x - 4$

C. $\dfrac{-4(x^2 + 8x - 16)}{2}$

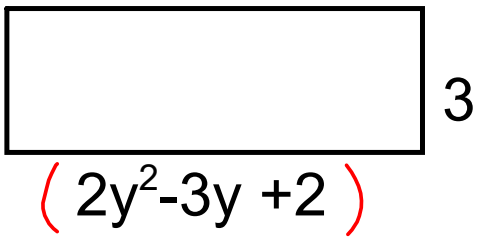
$-\dfrac{4x^2}{2} \boxed{-\dfrac{32x}{2}} + \dfrac{64}{2}$

$-2x^2 - 16x + 32$

Write the multiplication sentence modelled by the rectangle.

a)

b)



$A = bh$

$= 4(2x-3)$

① multiplication sentence

$A = bh$

$= (2y^2-3y+2)3$

$A = bh$

$= 3(2y^2-3y+2)$

② simplified polynomial for Area

$A: 8x-12$

$A: 6y^2-9y+6$

solve if x=3

$8(3)-12$

$24-12$

12

solve if y=3

$6(3)^2-9(3)+6$

$6(9)-27+6$

$54-27+6$

33

Section 5.6 Multiplying and Dividing a Polynomial by a Monomial

Remember Laws of Exponents

When Multiplying---Base is the same ADD the exponent

a) $3(2r) = 6r$

b) $(3r^1)(2r^1) = 6r^2$

c) $(3r^2)(4r^1) = 12r^3$

Determine the product

A. $2x(3x + 4)$

$6x^2 + 8x$

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

$6x^2 + 8x$

$4(2x)$

$2x(4)$

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

$-6x + 10$

d) $3x(2x^2 - 4x + 3)$

$6x^3 - 12x^2 + 9x$

Determine the product

e) $8x^1(2x^1 - 3y)$

$16x^2 - 24yx$

$16x^2 - 24xy$

Dividing a Monomial and a Binomial by a Monomial

base is same subtract the exponents

A. $\frac{-10m^2}{2m^1}$ $-5m$ $\left\{ \frac{-10mm}{2m} \right.$

B. $\frac{30k^2 - 18k}{-6k}$ $k^0 = 1$

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

$-5k + 3$

C. $\frac{-6r^2 + 4r}{2r}$

$\frac{-6r^2}{2r^1} \boxed{+ \frac{4r}{2r}}$

$-3r^1 + 2$

$6r^2(2r^1)$

$12r^3$

Determine the quotient

$$\frac{24x^2 + 6xy}{3x}$$

$$\frac{24x^2}{3x} + \frac{6xy}{3x}$$

$$8x + 2y$$

Find the product or quotient

add exponents

A. $-3x(-5x^2 - 10x + 5)$

$15x^3 + 30x^2 - 15x$

↳ subtract exponents

B. $\dfrac{-15y^2 - 18y}{3y}$

$\dfrac{-15y^2}{3y} - \dfrac{18y}{3y}$

$-5y - 6$