

$$(25 - 5n) \div (-5)$$

$$\boxed{\frac{25}{-5}} \quad \boxed{-\frac{5n}{-5}}$$

$$-5 + n$$

$$\frac{-26c^2 + 39c - 13}{-13}$$

$$-13$$

$$\boxed{\frac{-26c^2}{-13}} \quad \boxed{+\frac{39c}{-13}} \quad \boxed{-\frac{13}{-13}}$$

$$2c^2 - 3c + 1$$

Warm-Up

January ~~10~~, 2019

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

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

c) $(4x + 2) \div -2$

$$\frac{4x}{-2} + \frac{2}{-2}$$

$$-2x - 1$$

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

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

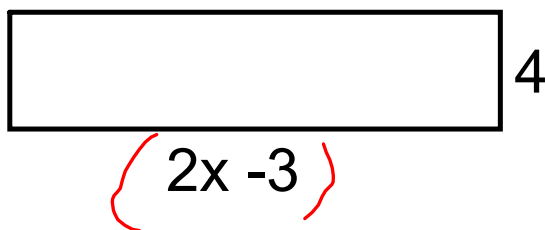
$$-3x^2 + 1x - 4$$

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

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

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

#2. Write a multiplication for the area of the following rectangle.



$$A = bh$$

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

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

$$(2x-3)4$$

$$4(2x-3)$$

B. Write a simplified polynomial for the above rectangle.

$$8x - 12$$

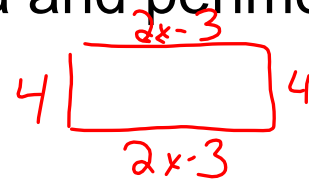
C. Give the value of the area and perimeter if $x=4$

$$A = 8x - 12$$

$$8(4) - 12$$

$$32 - 12$$

$$20$$



$$P = 4x + 2$$

$$4(4) + 2$$

$$18$$

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. $2x(3x + 4)$

$$6x^2 + 8x$$

$$4(2x)$$

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

$$6x^2 + 8x$$

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

$$-6x + 10$$

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

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

Determine the product

$$e) \quad 8x(2x - 3y)$$

$$16x^2 - 24xy$$

$$f) \quad -2x(4x^2y - 3x)$$

$$-8x^3y + 6x^2$$

Dividing a Monomial and a Binomial by a Monomial
base is same subtract the exponents

$$\text{A. } \frac{-10m^2}{2m^1} \quad \frac{-10(\cancel{m})(m)}{2\cancel{m}}$$

$$-5m^1$$

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

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

$$-5k + 3 \quad \left. \begin{array}{l} -5k + 3k^0 \end{array} \right\}$$

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

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

$$-3r + 2$$

Find the product or quotient subtract exponents with
 add exponents same base

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

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

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

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

$$-5y - 6$$

c) Determine the quotient

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

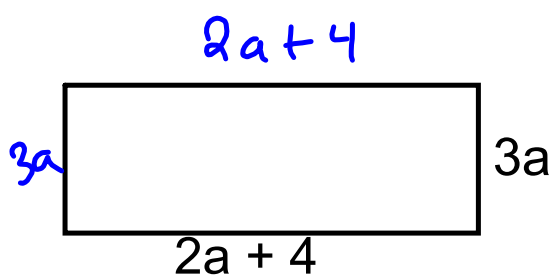
$$\frac{24x^2}{3x} + \frac{6xy}{3x}$$

$$8x + 2y$$

D) $\frac{4x(3xy + 4x - 6x^2)}{2x}$

$$\frac{12x^2y}{2x} + \frac{16x^2}{2x} - \frac{24x^3}{2x}$$

$$6xy + 8x - 12x^2$$



Write a simplified expression for

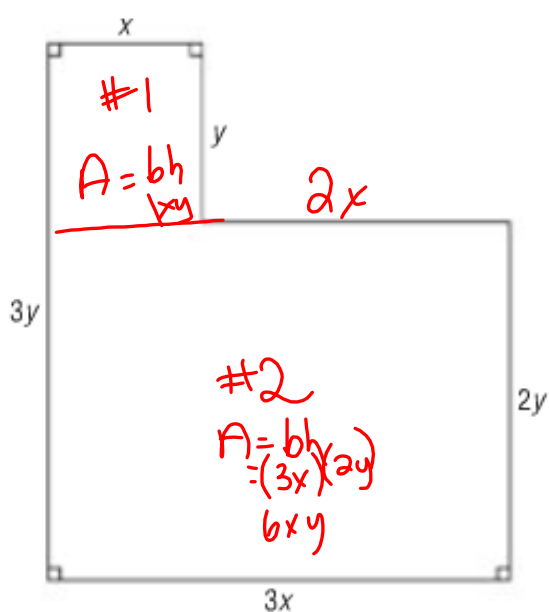
Perimeter

$$P = 10a + 8$$

A smaller rectangle is drawn with its longer sides horizontal. The bottom side is labeled $(2a + 4)$. The right side is labeled $3a$.

Area = bh
 $3a(2a + 4)$
 $6a^2 + 12a$

22. Write a polynomial for the perimeter of this shape. Simplify the polynomial.



$$P = 6y + 6x$$

$$\text{Area \#1} + \text{Area \#2}$$

$$1xy + 6xy$$

$$7xy$$

Homework

Pg 256 *257*

#10 [a], #11, #12, #16,

#20 [a,c,e], #21 [a, c,e] #22*

Quiz Review... Quiz Monday section 5.5-5.6

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22 [a, c, e, g, i, k]

23 [a, c]

24 b

28

29

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#2 sketch the shape

#8

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Answers