

Monday

February 7

Warm-Up



Group and Simplify each of the following. Classify the polynomial in your final answer.

A. $-3x + 5 - 3x - 8 - 4 + 8x$

$$-3x - 3x + 8x + 5 - 8 - 4$$

$$2x - 7$$

$$8x - 3x - 3x \quad \boxed{-8 + 5 - 4}$$

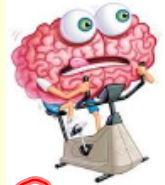
$$2x - 7$$

B. $2x^2 - 3x + 7 - 5x^2 - 5x - 10$

$$2x^2 - 5x^2 \quad \boxed{-3x - 5x} + 7 - 10$$

$$-3x^2 - 8x - 3$$

Fill in the chart below



Polynomial	Variable [s]
<u>-4y</u>	y
2x ²	x
3xy	x, y
-3y ² x	y, x x, y

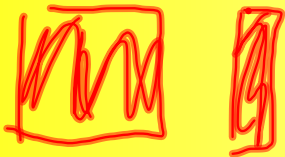
$$xy = 3$$

$$x = -2$$

$$y = 4$$

$$xy$$

$$x^2, x$$



Simplifying polynomials with more than one variable...



$$4xy - y^2 - 3x + 2xy - x - 3y^2$$

$$-y^2 - 3y^2 + 4xy + 2xy - 3x - x$$

$$-4y^2 + 6xy - 4x$$

$$4xy$$
$$2yx$$

$$(3)(4)$$
$$(4)(3)$$

$$2x^2y$$
$$4xy^2$$

Group then simplify



A. $-3rs + 4r^2 - 8sr + 3s - 10r^2 - 7s$

$$4r^2 - 10r^2 \quad \boxed{-3rs - 8rs} + 3s - 7s$$
$$-6r^2 - 11rs - 4s$$

Group / Simplify

$$-5y^2r - 3x + 4y^2r - 8x + 11x^2 - 15x^2$$

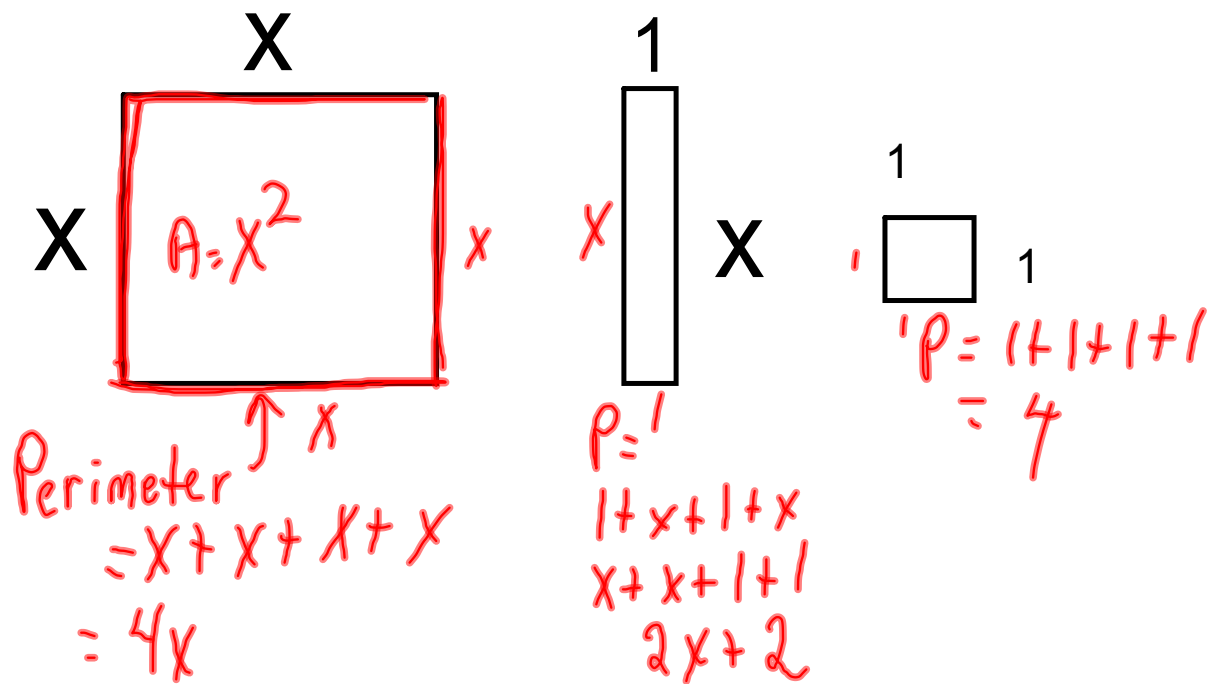
$$-5y^2r + 4y^2r + 11x^2 - 15x^2 - 3x - 8x$$

$$-y^2r - 4x^2 - 11x$$

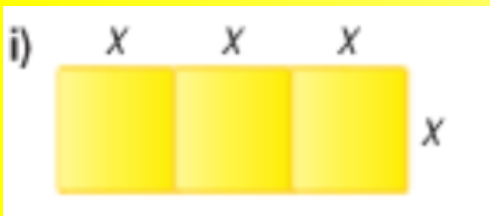
$$-4x^2 - y^2r - 11x$$

$$-11x - 4x^2 - y^2r$$

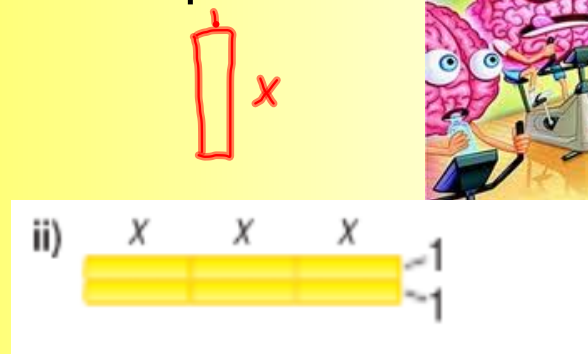
Remember



Using Polynomials to represent perimeter



$$P = 8x$$

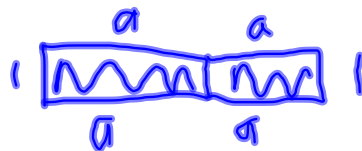


$$P = 6x + 4$$

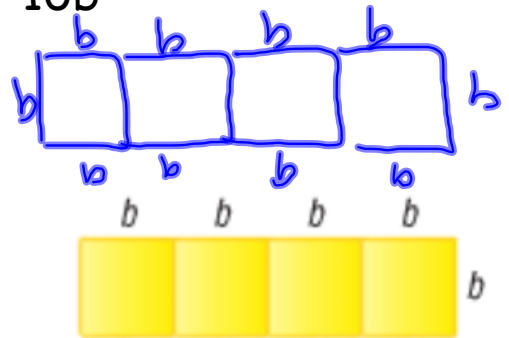
Each polynomial represents the perimeter of a rectangle.
 Use algebra tiles to make the rectangle



A. $4a + 2$



B. $10b$



+++++



Homework

Page 223

14 all

15 ~~all~~

18 b

19 all

20 a, b

GROUP
SIMPLIFY

a, c, f

