Warm Up:

Check your answers from your homework.
Discuss with your group any questions you had.

14. $13 + 2h$

15. $5n + 6.7$

16. $37t - 9.85$

17. 5 more than a number q

18. the quotient of y and 5

19. the product of 12 and x

24. twice the difference of 5 and a number n

30. 512

31. 496

32. 0

33. 3458

August 20, 2019

Expressions Vocabulary

$3x + 4x + 7 - 2ab + 6ab - 5x^2$

Terms: combo of #s and/or variables

$3x, 4x, 7, -2ab, 6ab, -5x^2$

Like Terms: terms w/ same variable ending (or constants)

$3x+4x$, $-2ab+6ab$

Constants: # w/o variable

7

Coefficients: # in front of the variable

3, 4, -2, 6, -5

$-1x+2$

$1x+5$

$21a$ $-7a$ $6b$ $2ab$ $10a$ $4b^2$ $5b$

a^2 ab $6ab^2$ b^3 $6ba$ $-4b$ x

Your Turn! - Simplify

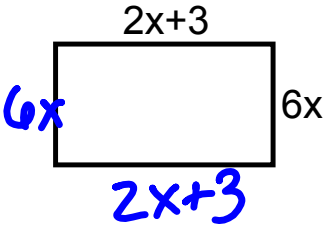
1) $4a+b+a-3b+34b^2$ $5a-2b+34b^2$

2) $5x-3x+2y^2+3y^2$ $2x+5y^2$

3) $7a+2ac-4ab+3a+2ca$ $10a+4ac-4ab$

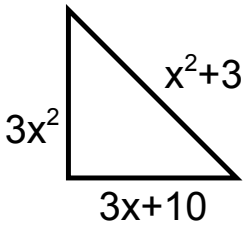
Write an expression to show the perimeters of the two objects.

4)



$16x+6$

5)



$4x^2+13+3x$

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Distributive Property

a(b+c) = ab + ac

Together:

2(5x+3) → 10x+6

-(m+5) → -m-5 → -m+-5

3x(x+6) → $3x^2+18x$

$X \cdot X = X^2$

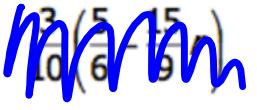
$3 \cdot 3 = 3^2$

Your turn:

-(y-5) → -y+5

(1/3)(3b-6) → $\frac{1}{3}(3b-6)$ → b-2

2a(4-3a) → $8a-6a^2$



Combining AND Distributing

You MUST Distribute before you can CLT

Together:

5-2(x-4)

5-2x+8

-2x+13

-(10-x)+5x-5

-10+x+5x-5

6x-15

-4(8-3x)+(2/3)(9x-18)

-32+12x+6x-12

18x-44

Your turn:

$4x^2-3(x+4)-12$

$4x^2-3x-24$

9x+3(2x-1)

3x(4-x)-7x

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1.) $-9x^2 - 2x(x - 4)$

2.) $5x(1 + 9x) - 5x^2$

3.) $-9n^2 - 6n(1 + 10n)$

4.) $-6x(6x + 2) + 4x$

5.) $-10x(8x - 3) - 3x^2$

6.) $-9(4x - 8) + 2x$

7.) $n(-6n - 6) - 3n$

8.) $2x^2 - 5x(1 - 8x)$

August 20, 2019