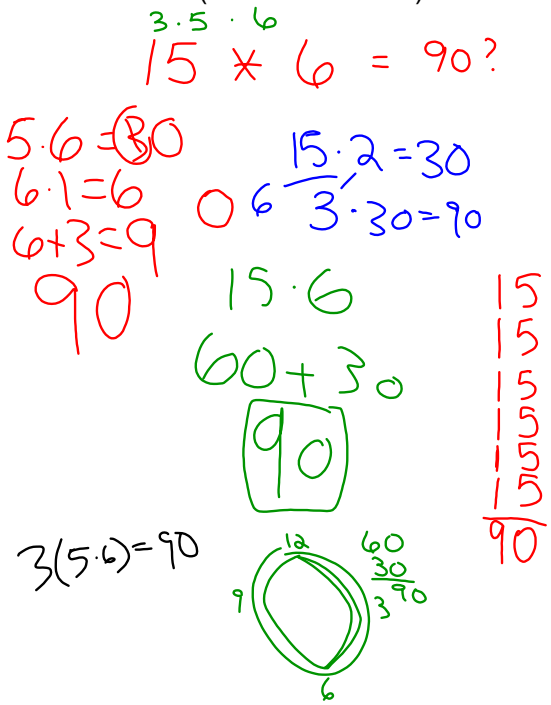
Happy Friday!! Three-Day Weekend Coming Soon :)

No Folders today

Do Now:

Number Talk (we'll talk about it)



Oct 7-9:49 AM

Upcoming Stuff You Need to Know

-Three day weekend!

-Tues/Wed some review

-Thurs Optional Reassessment (anything you want)

-Friday Mandatory Reassessment (must reassess factoring and solving polynomials)

-Friday ends the Quarter!!

-Then going into graphing functions

Oct 7-9:51 AM

Also...I'm going to start checking homework again. We will take more class time to ask questions about homework.

Oct 7-9:55 AM

Let's add/subtract!

$4+(-3)=$ 1

$7-(-3)=$ 10

$5-7=$ -2

$9-3=$ 6

$-10+6=$ -4

$-10+-8=$ -18

Oct 7-9:59 AM

2 · -3 · -6 · 5 · 10

-10, -8, -7, 5

Number Sense

When multiplying...

What gives a positive product?	What gives a negative product?	What gives zero as a product?
pos * pos neg * neg even # negs	neg * pos pos * neg	Anything * 0

Oct 7-9:53 AM

Number Sense

121 81

Perfect Squares			Perfect Cubes		
64	25	144	8	27	125
4	49	16	64		625
9	36	100		216	
169			729		1

2197 ← (13^3)

Oct 7-9:53 AM

Now let's use that to factor:

$1x^2 + 8x + 12$

$(x+6)(x+2)$

Two numbers that multiply to 12 that also add to 8

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Now let's use that to factor:

$x^2 - 3x - 10$

$(x-5)(x+2)$

Two numbers that multiply to -10 that also add to -3

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Now let's use that to factor:

$$4x^2 + 22x + 10$$

Two numbers that multiply to __10__ that also add to __11__

$2(2x^2 + 11x + 5)$

$2(2x^2 + 10x + x + 5)$

$2(2x(x+5) + 1(x+5))$

$2(x+5)(2x+1)$

Oct 7-9:56 AM

What about those perfect squares?

$$x^2 - 100$$

If this is subtraction, then you're fine!

$(x-10)(x+10)$

Oct 7-10:05 AM

What about those perfect squares?

$x^2 + 100$

If this is addition, then NOT FACTORABLE!

$(x+10)(x+10)$

$x^2 + 10x + 10x + 100$

$x^2 + 20x + 100$

Oct 7-10:05 AM

But...Perfect Cubes you can factor with addition or subtraction as long as your clean.

$x^3 - 125$

$(x-5)(x^2+5x+25)$

$x^3 + 125$

$(x+5)(x^2-5x+25)$

Yes, even Yasir can do SOAP now.

Oct 7-10:08 AM

Homework: Factoring Practice Worksheet

Exit "Slip": What do you always look for first when factoring?

Oct 7-10:12 AM