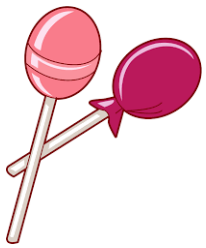
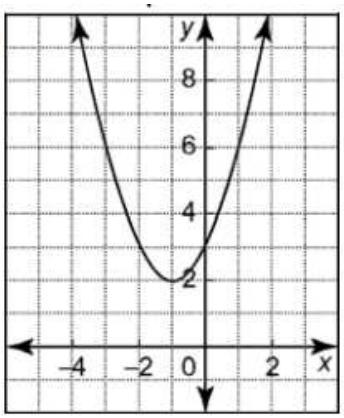
SUCKER Quiz

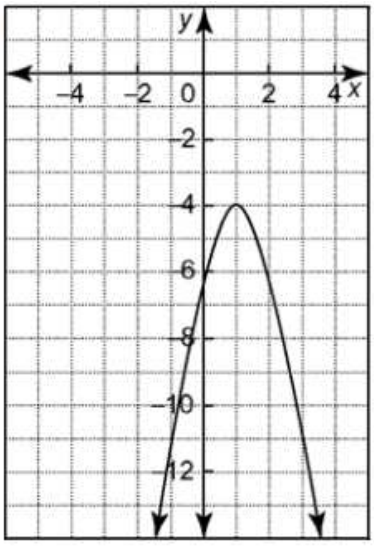


1) On a sheet of scrap paper write your name.
2) Write the equations of the following graphs.
3) Put your answers in the box at the front of the room.
4) Wait patiently until Ms Gilby draws names for the winners.
5) If you talk to anyone around you, you may not enter your answers.

a)

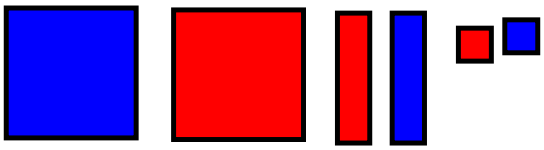


b)



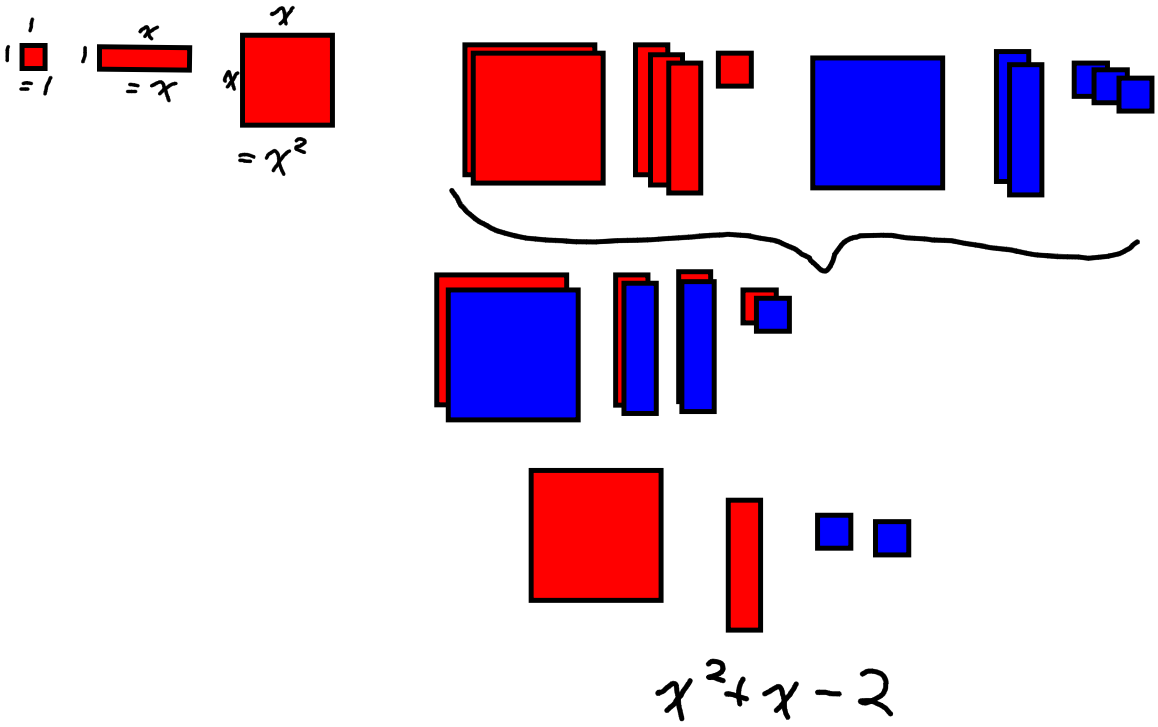
Oct 19-2:59 PM

Expanding Warm-up

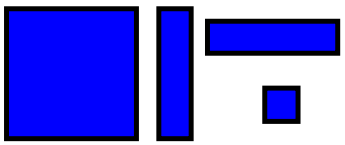


Ex. 1 Represent the expression using alge-tiles simplify then express simplified expression algebraically

$(2x^2 + 3x + 1) + (-x^2 - 2x - 3)$

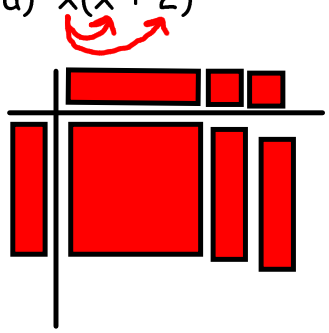


Ex 2: Use algebra tiles to expand the following



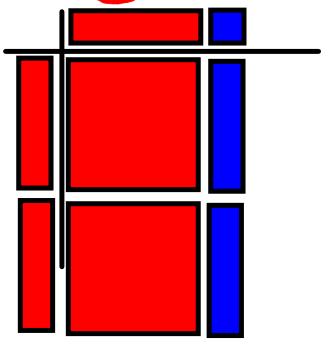
Blue is NEG

a) x(x + 2)



x^2+2x

b) 2x(x - 1)

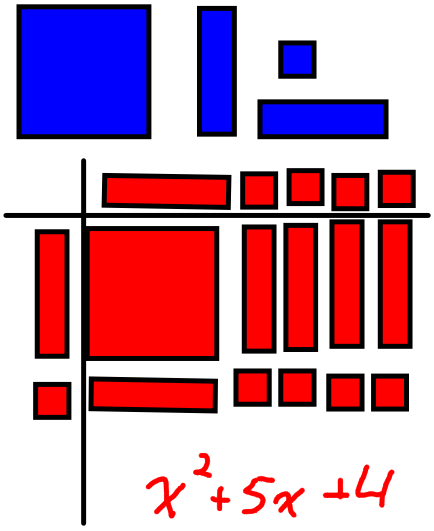


$2x^2-2x$

Nov 8-10:20 AM

2.5 Expanding Binomials

Expand the following binomials using algebra tiles or a chart:
$(x + 1)(x + 4)$

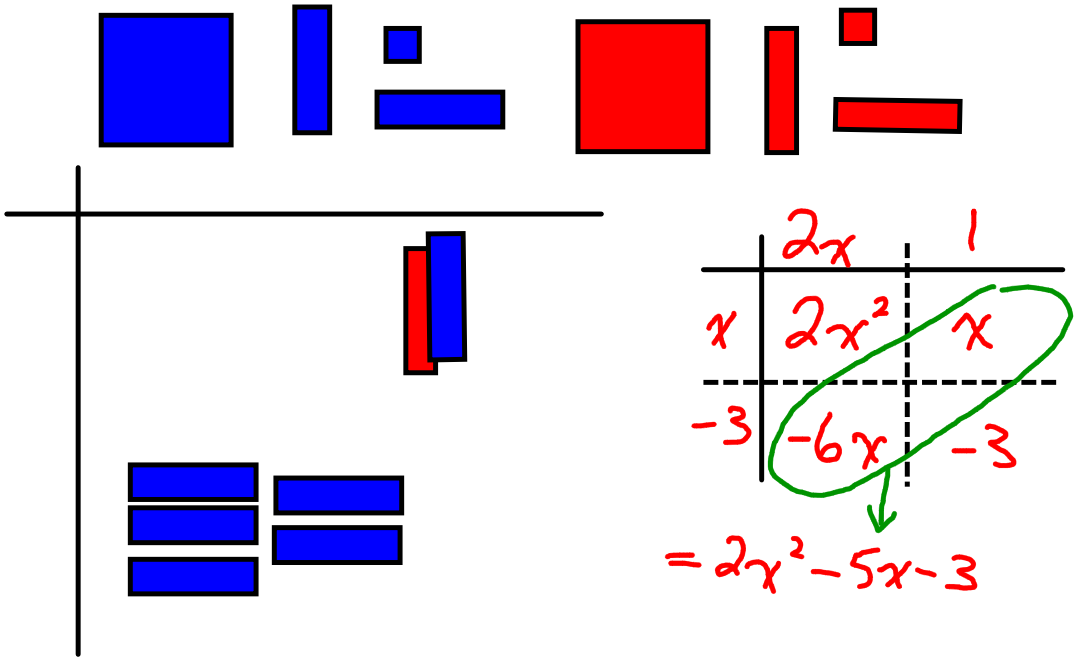


$x^2 + 5x + 4$

	x	4
x	x^2	$4x$
1	x	4

$= x^2 + 5x + 4$

b) (2x+1)(x-3)



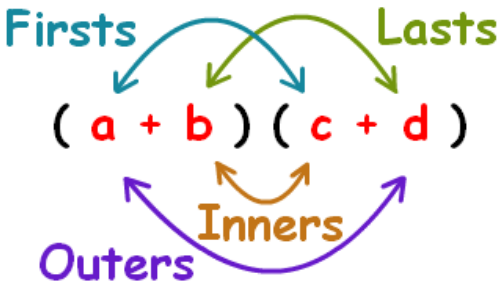
Ex. 1 Expand the following algebraically

Use Distributive Property!

a) $(x-5)(4x-3)$

$= 4x^2 - 3x - 20x + 15$

$= 4x^2 - 23x + 15$



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

$= 6x^2 - 8x + 6x - 8$

$= 6x^2 - 2x - 8$

c) $(\frac{1}{2}x - 4)(x + 6)$

$= \frac{1}{2}x^2 + 3x - 4x - 24$

$= \frac{1}{2}x^2 - x - 24$

d) $(5x^2 - 3y)(2x - y^2)$

$= 10x^3 - 5x^2y^2 - 6xy + 3y^3$

e) $(2x - 3)(2x + 3)$

$= 4x^2 + 6x - 6x - 9$

$= 4x^2 - 9$

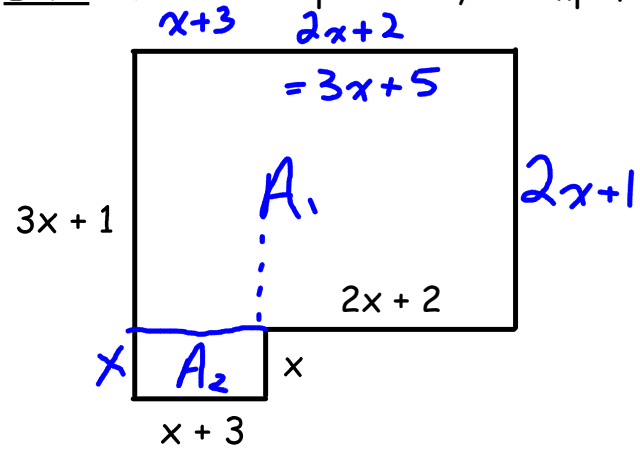
f) $(2x - 5)^2$

$= (2x-5)(2x-5)$

$= 4x^2 - 10x - 10x + 25$

$= 4x^2 - 20x + 25$

Ex. 2 Write an expression, in simplified form, for the area of this shape



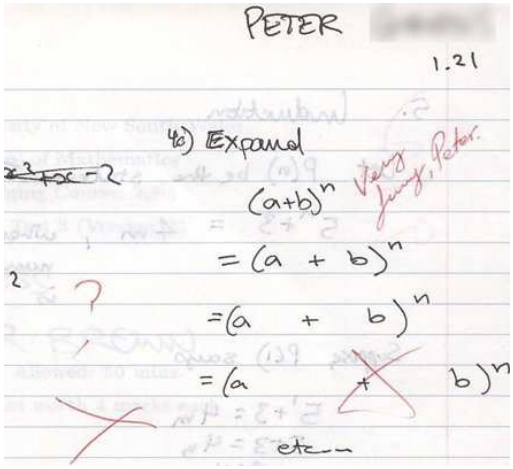
$A = A_1 + A_2$

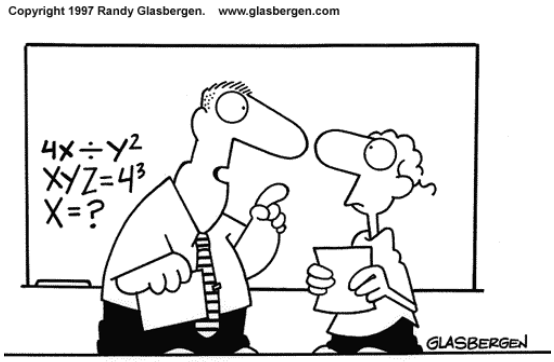
$= (2x+1)(3x+5) + (x+3)(x)$

$= 6x^2 + 10x + 3x + 5 + x^2 + 3x$

$= 7x^2 + 16x + 5$

Practice page 239
1d,2d,3-7cf,11,14





"Algebra class will be important to you later in life because there's going to be a test six weeks from now."

Oct 12-9:41 PM