Warm-up

Dec 5/14

$$(5x - 1) + (10x^2 + 7x)$$

1. Simplify (Group the like terms)
2. Add the two polynomials
3. What type of polynomial is your answer?

x^2 = oranges
x = apples
-1 = mangos.

$5x - 1 + 10x^2 + 7x$

$10x^2 + 5x + 7x - 1$

$10x^2 + 12x - 1$

→ Descending order

6a)

$2x$		$+4$
$+3x$		-5
$5x$		-1

c)

$3x^2$	$+5x$	$+7$
$+-8x^2$	$-3x$	$+5$
$-5x^2$	$+2x$	$+12$

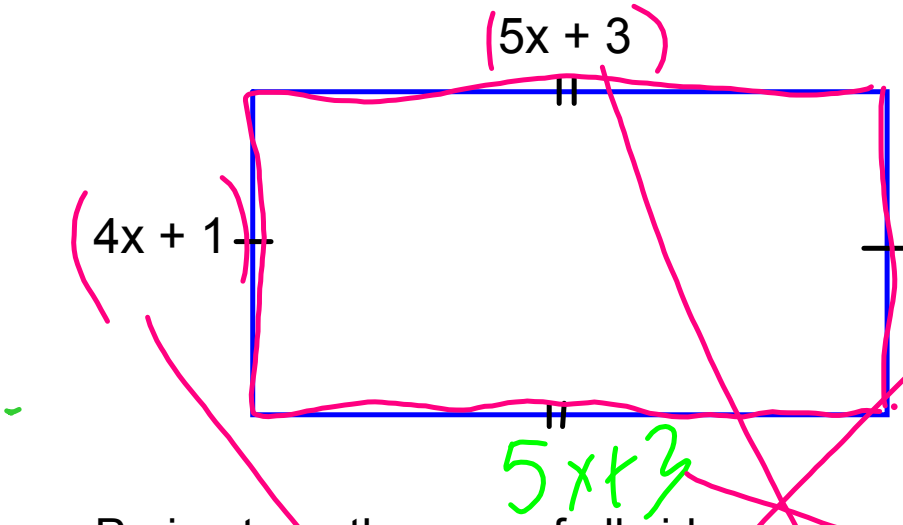
$x^{2=}$ Oranges

x=apples

Constants= Mangos

Determining a Polynomial for the perimeter of a rectangle

a) Write a polynomial for the perimeter of this rectangle.
Simplify the polynomial.



Perimeter = the sum of all sides

$= (4x + 1) + (4x + 1) + (5x + 3) + (5x + 3)$

$= 4x + 1 + 4x + 1 + 5x + 3 + 5x + 3$

$= 4x + 4x + 5x + 5x + 1 + 1 + 3 + 3$

$= 18x + 8$

The perimeter is $18x + 8$.

Perimeter = Sum of all sides

Take Brackets away

Group like terms

Apples

Mangos

Adding Polynomials in Two Variables

s^2 = apples c^2 = blueberries
s = orange cs = banana
c = mango

Add: $(3s^2 + s - 4c - 5cs + 2s^2) + (-5c^2 + 3cs + 6c - 4s + 7c^2)$ Remove Brackets

$= 3s^2 + s - 4c - 5cs + 2s^2 - 5c^2 + 3cs + 6c - 4s + 7c^2$ Group like terms.

$= 3s^2 + 2s^2 + s - 4s - 4c + 6c - 5cs + 3cs - 5c^2 + 7c^2$ Combine like terms

$= 5s^2 - 3s + 2c - 2cs + 2c^2$ Add them

Practice Questions

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Quiz Tuesday