Label in your binder:

Unit 0: Foundations

Today's Objective

- Be able to combine like terms and determine expressions in context

EXPRESSIONS VS EQUATIONS

What is the difference?

Equations contain equal signs!

Expressions are mathematical phrases

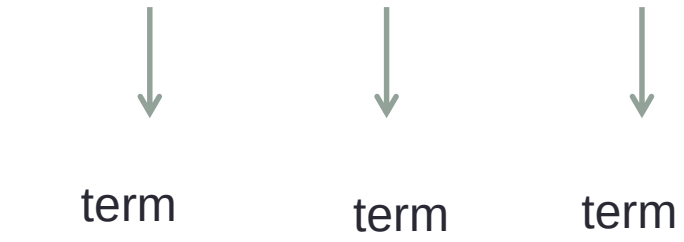
Equations are mathematical sentences.

PARTS OF EXPRESSIONS

What are Terms?

- the different parts of the expression- can be a single number or variable

- $3x + 2y + 8$



What are Constants?

- Fixed quantity that doesn't change

$$2x + 5$$

What are Variables?

- a symbol for a number we don't know yet. It is usually a letter like x or y.

$$2x + 5$$

What are Coefficients?

- a number that is multiplied by a variable

- Ex: 5x -9y 10z

What are Like Terms

Same variables raised to the same power

Like Terms	Unlike Terms
$2x + 19x$	$2x + 19a$
$4w - 10w$	$4w - 10w^2$
$14.2r - 12r$	$12r - 12s$
$32a^2 + 9a^2$	$32a^2 + 9a^3$
$8y + 5y$	$8y + 5$

Simplify the Expression

$$-5x + 2y - (-6y) + 2$$

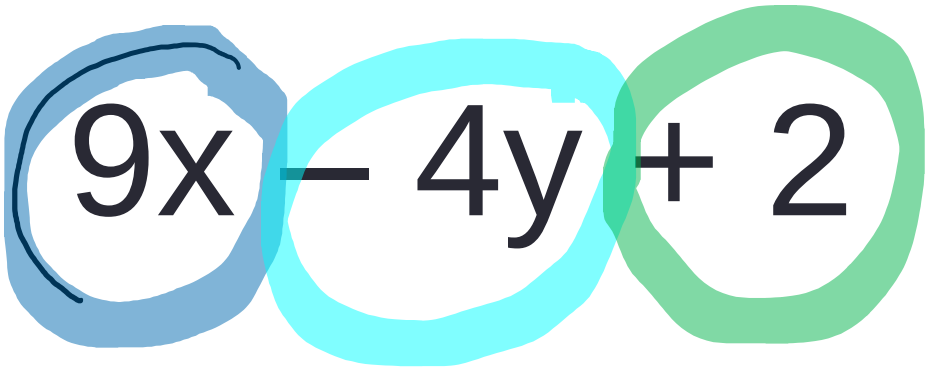
$-5x + 8y + 2$

Simplify the Expression

$3x + 2 - (-10x) - 10$

$13x - 8$

Simplify the Expression



$9x - 4y + 2$

Simplify The Expression

$7x - 12x - 8 - 8 + 18x + 7$

-16

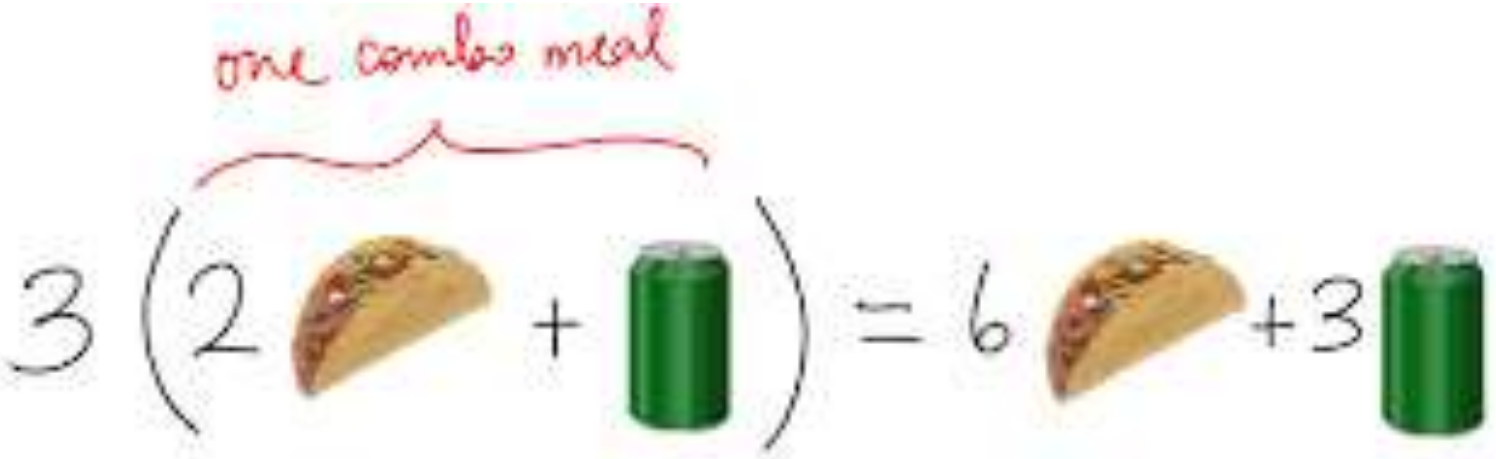
$13x - 9$

Simplify the Expression

$18x - 20y + (-5y) - 10y - (-12x)$

$30x - 35y$

Distributive Property



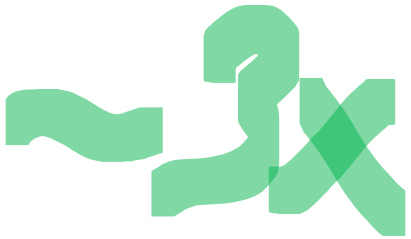
Simplifying Expressions

$2(x + 3) + 8x$

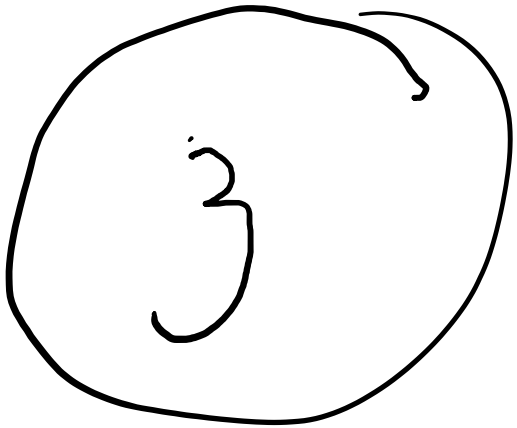
$6 + 10x$

Simplifying Expressions

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

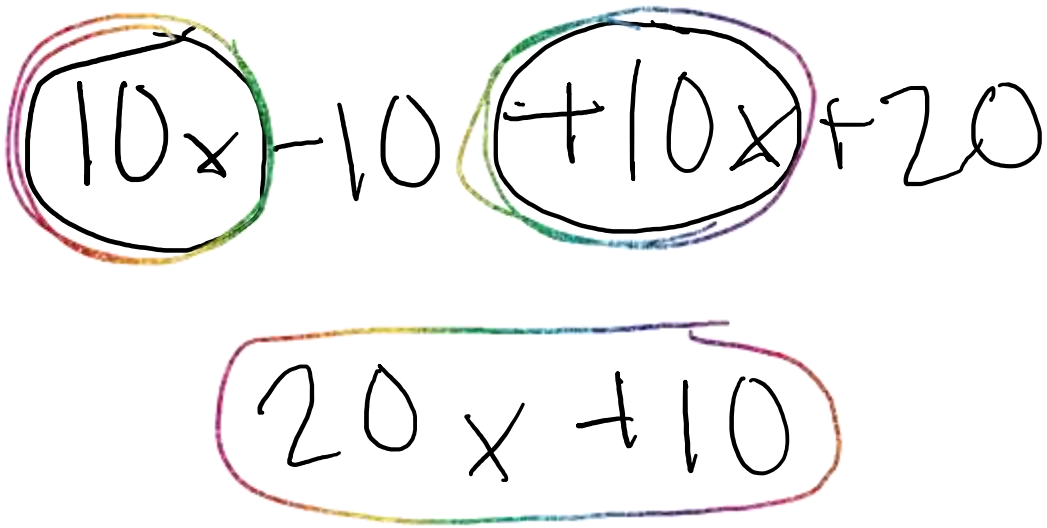


$+3+3x$



Simplifying Expressions

$$10(x - 1) + 10(x + 2)$$



INTERPRETING EXPRESSIONS WORKSHEET