

Algebra 1 Honors

- Write down your work for the week in your planner.
- Take out your homework from Thursday with a checking pen.
- Make sure to have your composition book at your table.
- Answer the following question on your new Bellwork sheet in the **MONDAY** box.

Evaluate: $-a^2 - c^2$ if $a = \underline{-2}$ and $c = \underline{4}$

$$\begin{aligned} & -20 \\ & -12 \\ & -(-2)^2 - (4)^2 \\ & -4 - 16 = -20 \end{aligned}$$

ions: Evaluate each expression for the given variable values.

$$\begin{aligned} & 3n + 8 && \text{if } n = 4 \\ & 2 - 3(4) + 8 \\ & -12 + 8 \\ & 4 + 8 = \boxed{12} \end{aligned}$$

$$\begin{aligned} & 2. \frac{x^2 - 4y}{2} && \text{if } x = 4 \text{ and } y = \\ & \frac{(4)^2 - 4(-3)}{2} = \frac{-16 + 12}{2} = \frac{28}{2} \\ & = \boxed{14} \end{aligned}$$

$$\begin{aligned} & -|m| && \text{if } m = -7 \text{ and } n = 2 \\ & -|-7| - 2 && \text{4 } |m| - |n| \\ & -9 \\ & (-9) = \boxed{36} \end{aligned}$$

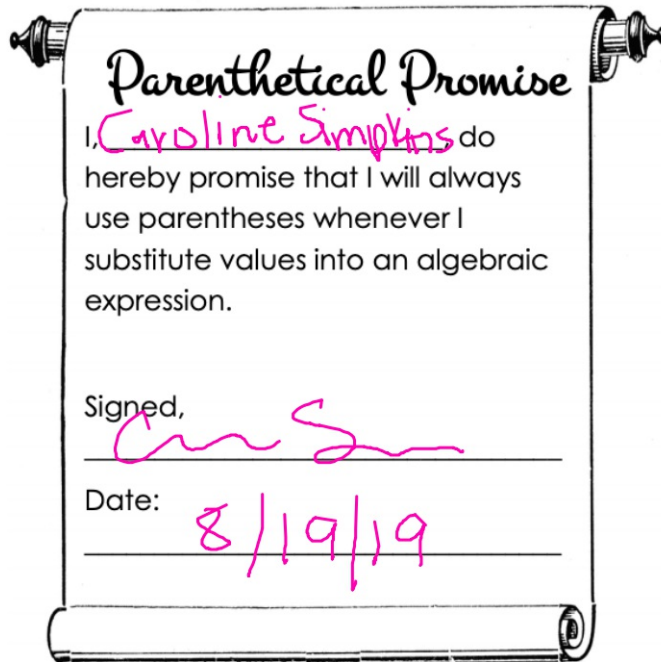
$$\begin{aligned} & 4. 19 - x^2 && \text{if } x = \\ & 19 - (-5)^2 \\ & 19 - 25 = \boxed{-6} \end{aligned}$$

$$\begin{aligned} & 10 && \text{if } s = -8 \text{ and } t = \frac{3}{4} \\ & 2\left(\frac{3}{4}\right) - 10 \\ & \left(\frac{3}{4}\right) - 10 \\ & 3 - 10 = \boxed{38} \end{aligned}$$

Handwritten work: $\frac{16}{64} \cdot \frac{3}{4}$

$$\begin{aligned} & 6. 4p^2 + 7q^3 && \text{if } p = -3 \text{ and } q = \\ & 4(-3)^2 + 7(-2)^3 \\ & 4(9) + 7(-8) \\ & 36 - 56 = \boxed{-20} \end{aligned}$$

EXAMPLES	Directions: Evaluate each expression using the variable replacements.	
	1. $ab^2 + c$ if $a = 2, b = 4, c = 7$	2. $3x^2 - 4x$ if $x = -2$
YOU TRY!	Directions: Evaluate each expression using the variable replacements.	
	3. $a^2b - b^2$ if $a = 3$ and $b = -4$	4. $a^2b - b^2$ if $a = 4$ and $b = -7$
	$(3)^2(-4) - (-4)^2$ 20 $9(-4) - 16$ -52 $-36 - 16 =$ -10 -44	
5. $-y^2 - 3xy$ if $x = -4$ and $y = 2$	6. $-y^2 - 3xy$ if $x = -\frac{5}{6}$ and $y = -12$	
$-(2)^2 - 3(-4)(2)$ 20 $-4 - (-24)$ -20 $-4 + 24$ 28		



Why is it so important?

Evaluate $x^2 - 2x + 3$ for $x = \underline{-2}$

With parentheses	Without parentheses
$(-2)^2 - 2(-2) + 3$	$-2^2 - 2 \cdot -2 + 3$
$4(-)4 + 3$	$-4(-)4 + 3$
$4 + 4 + 3 = 11$	$-4 + 4 + 3 = 3$

Expression

Definition

A math phrase
with #'s and
variables

Example

$$2x + 3$$

Equation

Definition

Comparing two
expressions w/ =

Example

$$7x + 10 = 30$$
$$y = 11x + 12$$

Inequality

Definition

Comparing two
expressions w/
 $<$ \leq $>$ \geq

Example

$$3x - 24 < 14$$

CARD SORT!