

Algebra 1 Honors

- Take out your homework from yesterday with a checking pen.
- Make sure to have your composition book at your table.
- Solve the following:

$$1. \ 2 + (-5) = -3$$

$$2. \ -2 - 8 = -10$$

$$-4 \cdot -4$$

$$3. \ (-4)^2 \quad -8 \quad 16$$

$$-16$$

$$4. \ (-4)^2 \quad -16 \quad 16$$

$$16$$

$$-1 \cdot 16 = -16$$

$$-1 \cdot 4^2$$

Directions: Write an integer for each situation.

1. 12 miles below sea level -12

2. 8 mph above the speed limit 8

3. 2 feet taller 2

4. a \$125 withdrawal -125

5. a coupon for \$20 off -20

6. 3 degrees above normal 3

Directions: Place a $<$ or $>$ in the circle to complete the statement.

7. $6 \text{ } \textcircled{>} \text{ } -2$

8. $-17 \text{ } \textcircled{<} \text{ } -14$

9. $-13 \text{ } \textcircled{<} \text{ } 1$

10. $-41 \text{ } \textcircled{>} \text{ } -45$

Directions: Order the integers from least to greatest.

11. $\{-7, -12, 0, 5, 2, -4, -1\}$

-12, -7, -4, -1, 0, 2, 5

12. $\{24, -19, -11, 7, -25, -15, 3\}$

-25, -19, -15, -11, 3, 7, 24

ns: Find each sum, difference, product, or quotient.

14	14. $-3 + 15$	12	15. $-18 + 7$	-11
8 3	17. $4 - 19$	-15	18. $-2 - 6$	-8
(-12) -13	20. $8 + (-4)$	4	21. $10 + (-25)$	-15
(-5) 24	23. $-15 - (-7)$	-8	24. $-6 - (-13)$	7
3 -40	26. $8(11)$	88	27. $-2(-9)$	18
-3 -45	29. $-7 \cdot -6$	42	30. $-12 \cdot 5$	-60
-3 -8	32. $60 \div 4$	15	33. $72 \div -8$	-9
-9 3	35. $48 / -4$	-12	36. $\frac{-30}{6}$	-5

Directions: Find each value.					
37. $ 20 $	20	38. $ -9 $	9	39. $ -16 + -2 $	18
40. $ 5 - 7 $	-2	41. $ 4 + -17 $	21	42. $ -9 - -4 $	5
43. $ 10-15 $	5	44. $ -2-10 $	12	45. $ 2+(-19) $	17

Homework

Tests/Quizzes

Handouts

Classwork

Name:

Date:

Topic:

Class:

Main Ideas/Questions	Notes/Examples
ALGEBRAIC EXPRESSION	A phrase with numbers and variable.
SUBSTITUTION <i>Property</i>	If $x=2$, then substitute all x 's with 2
EVALUATING <i>Expressions</i>	To evaluate an expression variable replacements: <ul style="list-style-type: none">• <u>substitute</u> the variables with their given values.• Each time you substitute a variable with a number, put <u>parenthesis</u> around the number!• Follow the <u>order of operations</u> to evaluate!

EXAMPLES	Directions: Evaluate each expression using the variable replacements.	
	1. $ab^2 + c$ if $a = 2, b = 4, c = 7$ $(2)(4)^2 + (7)$ $(2)(16) + (7)$ $32 + 7$	2. $3x^2 - 4x$ if $x = -2$ $3(-2)^2 - 4(-2)$ $3(4) - 4(-2)$ $12 + 8 = 20$
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 $b = -7$
	5. $-y^2 - 3xy$ if $x = -4$ and $y = 2$	6. $-y^2 - 3xy$ if $x = -\frac{5}{6}$ and $y = -12$

Practice the following on the right hand side of your Interactive Notebook.

If $f = 7$, $g = 10$, $h = 4$

1. $\frac{3+h}{g-3}$

2. $g^2 + 2h$

3. $\frac{4g}{h}$

Parenthetical Promise

I, _____, do hereby promise that I will always use parentheses whenever I substitute values into an algebraic expression.

Signed, _____

Date: _____

Why is it so important?

Evaluate $x^2 - 2x + 3$ for $x = -2$

With parentheses	Without parentheses