



Aledo Independent School District

GRADES 6-12 DISTANCE LEARNING

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| School Name | Aledo High School |
| Grade Level | 9-12 |
| Week of | 5/3/22 *All assigned work due by Sunday at midnight |

Math Resource

Estimated Time to Complete: 2 hours

Resources Needed: Topic 1-2 Notes, Assignment #1-2

Lesson Delivery (What do we want you to learn?):

Integers, Absolute Value and Properties

Engage and Practice (What do we want you to do?):

- 1) Go over completed notes/examples Topic #1-2, Integers, Absolute Value and Properties
- 2) Watch the google slides video explaining the notes
- 3) Homework Assignment #1-2

Create and Submit (What do we want you to turn in?):

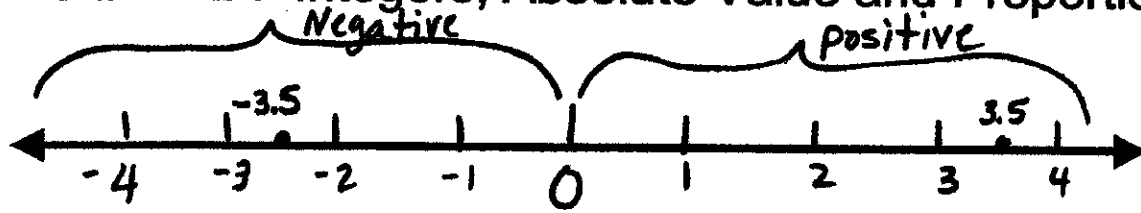
Assignment #1-2

Optional Extension Opportunity (What do we want you to do if you want to extend your learning?):

I have included an activity if you would like to extend your learning. It is a Property Activity (Commutative Property, Associative Property, Distributive Property) Write the letters attached to the activity squares on the attached 3 column sheet.

Notes

TOPIC # 1 - 2 : Integers, Absolute Value and Properties



- 1) Label "0".
- 2) Label the side that contains the negative numbers.
- 3) Label the side that contains the positive numbers.
- 4) Place 3, 3.5, 4 on the number line.
- 5) Place -3, -3.5, -4 on the number line.

Write an integer for the following, then write its opposite.

- | | | |
|---------------------------------|-------------|-------------|
| 6) three degrees below zero | <u>-3</u> | <u>+3</u> |
| 7) \$20 lost trading | <u>-20</u> | <u>+20</u> |
| 8) 50 feet above sea level | <u>+50</u> | <u>-50</u> |
| 9) 10 yards gained on the field | <u>+10</u> | <u>-10</u> |
| 10) a bank deposit of \$500 | <u>+500</u> | <u>-500</u> |

Absolute Value of a number is the distance a number is away from zero. IT IS ALWAYS POSITIVE!

- 11) $|9| = \underline{9}$ 12) $|-17| = \underline{17}$

Notes

$$13) -|-8| = \underline{-8}$$

$$14) \begin{array}{c} |-4| + |3| \\ 4 + 3 \end{array} = \underline{7}$$

$$15) \begin{array}{c} |12-3| \\ |9| \end{array} = \underline{9}$$

$$16) \begin{array}{c} |8| - |-3| \\ 8 - 3 \end{array} = \underline{5}$$

$$17) \begin{array}{c} 3|-4| \\ 3(4) \end{array} = \underline{12}$$

$$18) \begin{array}{c} 2|-5| - |-6| \\ 2(5) - 6 \end{array} = \underline{4}$$

Compare each pair of numbers using $<$, $>$, or $=$.

$$19) 5 \underline{<} 8 \quad 20) -3 \underline{>} -9 \quad 21) |-4| \underline{=} 4$$

$$22) -7 \underline{<} |-7| \quad 23) \frac{1}{2} \underline{>} -5$$

There are 3 properties that we will use.

Commutative Property

$$\begin{aligned} A + B &= B + A \\ A \bullet B &= B \bullet A \end{aligned}$$

Associative Property

$$\begin{aligned} (A + B) + C &= A + (B + C) \\ (A \bullet B) \bullet C &= A \bullet (B \bullet C) \end{aligned}$$

Distributive Property

$$\begin{aligned} A(B + C) &= A \bullet B + A \bullet C \\ A(B - C) &= A \bullet B - A \bullet C \end{aligned}$$

notes

Name the property illustrated.

$$7x + 8y = 8y + 7x$$

Commutative

$$r(3 + 4t) = 3r + 4rt$$

Distributive

$$(6x + 9) + 7y = 6x + (9 + 7y)$$

Associative

$$7(3 \cdot 5) = (7 \cdot 3) 5$$

Associative

$$6x + (2y + 5z) = (2y + 5z) + 6x$$

Commutative

$$(5 \cdot 3a) \cdot 2b = (3a \cdot 5) \cdot 2b$$

Commutative

$$(a + 4) 15 = 15a + 60$$

Distributive

Homework

A # 1 - 2

NAME _____ DATE _____ PERIOD _____

Integers, Absolute Value and Properties

Write a number to represent each situation. Then write the opposite of that number.

- 1. Five steps down _____
- 2. Two rooms to the right _____
- 3. 190 m above sea level _____
- 4. Nine degrees below zero _____
- 5. Four losses _____

Graph the given numbers on a number line.

6. 1, -5, -3, 4, 3, 0 

7. -3, 1, 0, -2, -1, 2, 3 

Simplify.

8. $|-5| =$ _____ 9. $|12| =$ _____

10. $|-3| =$ _____

12. $|7| + |-7| =$ _____

16. $-|5| =$ _____

Homework

A#1-2

Compare each pair of numbers using $<$, $>$, or $=$.

18. $7 \underline{\hspace{1cm}} 4$

19. $-5 \underline{\hspace{1cm}} -2$

20. $|4| \underline{\hspace{1cm}} -4$

21. $-1 \underline{\hspace{1cm}} \frac{2}{3}$

22. $0 \underline{\hspace{1cm}} -3$

23. $10 \underline{\hspace{1cm}} |10|$

24. $|-9| \underline{\hspace{1cm}} -|-4|$

25. $1 \underline{\hspace{1cm}} -|4|$

Name the property illustrated.

26. $(6 + 4) + 2 = 6 + (4 + 2)$

Associative

27. $7 + 6 = 6 + 7$

28. $7(ab) = (7a)b$

29. $10x + 10y = 10(x + y)$

30. $(5x^2 + x) - 3 = (x + 5x^2) - 3$

31. $4(a - 5b) = 4a - 20b$

Distributive

32. $3(5 + c) = (5 + c) 3$

