

6th Grade
Oct 22, 2020

Please get out your video notes from Tuesday.

Today we will:
-review video notes
-do some examples
-begin HW

I will do binder checks throughout the week.

HOMEWORK:

Complete WS

THQ due TOMORROW

ALEKS-60 minutes
due by 11:59pm next
Monday night 10/26

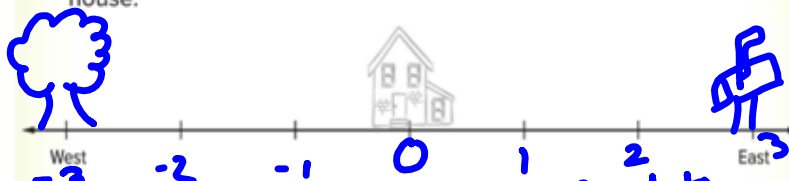


absolute value

is the distance between a
number and zero

★ Absolute value is ALWAYS positive!!

1. Each mark on the number line indicates one yard. Draw a tree three yards west of the house. Draw a mailbox three yards east of the house.



2. The distance between the house and the tree is equal to the distance between the house and the mailbox.

3. The tree and the mailbox are in opposite directions from the house.

4. How does the number line above help you to understand absolute value? The house is at zero on the number line. The tree and the mailbox are the same distance from the house but in opposite directions. They have the same absolute value.

∴

First, let's look at opposites again from the previous lesson.

What is the opposite of 2? -2

What is the opposite of -7? +7

What is the opposite of 0? 0

What is the opposite of the opposite of 14? 14

Now, let's evaluate some absolute values:

$$|-5| = \underline{5}$$

$$|0| = \underline{0}$$

$$|2| = \underline{2}$$

$$|-257| = \underline{257}$$

$$|10| = \underline{10}$$

$$|-39| = \underline{39}$$

$$|-25| = \underline{25}$$

$$|16| = \underline{16}$$

Now, let's use absolute value to evaluate some expressions.

$$|-16| + |-12| = \underline{28}$$

$$|20| - |-3| = \underline{17}$$

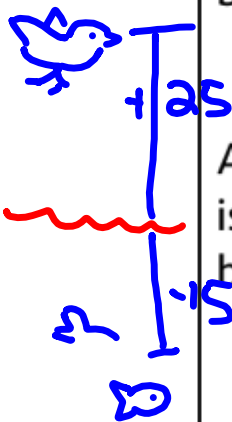
$$|-9| + |3| = \underline{12}$$

$$|-8| - |-2| = \underline{6}$$

$$|26 - 10| = |16| = 16$$

Finally, we will solve some word problems involving absolute value.

Anna has -10 points in a video game. Her friend has 12 points in the same game. What is the difference between the two scores?



A bluebird is flying 25 feet above sea level. A seagull is diving 15 feet below sea level. What is the distance between the two birds?

$$|25| + |-15| = 25 + 15 = 40$$

Try these examples:

Assessment

Name: _____



Do you Get It?

Solve the following.

1) $|-4| = 4$

2) $|10| = 10$

3) $|-3| + 6 - |-2| =$
 $3 + 6 - 2 = 7$

A diver is 15 feet below the surface of the water.


4) What number would represent his position on a number line?

-15

5) What number would represent the distance/magnitude of his dive?

15 ft



	Name _____
	Unit ____ Lesson ____ Due Date _____

Lesson 2 Skills Practice

Absolute Value

Find the opposite of each integer.

1. 18 **-18**

2. -13 **13**

3. -5 **5**

4. 6 **-6**

5. -17 **17**

6. 21 **-21**

Find the opposite of the opposite of each integer.

7. -7 **-7**

8. -8 **-8**

9. 15 **15**

10. 23 **23**

11. -19 **-19**

12. -54 **-54**

Evaluate each expression.

13. $|-4|$ **4**

14. $|800|$ **800**

15. $|10 - 5|$ **5**

16. $|-18| - |13|$ **5**

17. $|16| - |-2|$ **14**

18. $|-11| + |0|$ **11**

19. $|-26| + |-17|$ **43**

20. $|-1| + |-1|$ **2**