

6th Grade  
Oct 26, 2020

Please get out THQ  
if not turned in yet.

Today we will:  
-take some in-class  
notes and do some  
examples  
-begin HW

HOMEWORK:

Complete WS

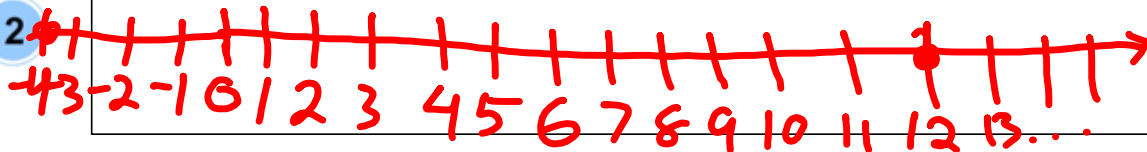
ALEKS-60 minutes  
and 5 topics due by  
11:59pm TONIGHT



1. Fill in the  $\bigcirc$  with  $<$ ,  $>$ , or  $=$  to make a true sentence.

$$12 \bigcirc -4$$

1 Graph 12 and  $-4$  on a number line. Then compare.



3 LEFT is LESS on a number line,  
So  $-4$  is less than 12. So,  $12 > -4$

Justin has a score of  $-4$  on the Trueville Trivia game. Desiree's score is  $-5$ . Write an inequality to compare the scores. Explain the meaning of the inequality.

$$\textcircled{\text{OR}} \quad \begin{array}{l} -4 > -5 \\ -5 < -4 \end{array}$$

Justin is winning because his score is higher.

The low temperature for Smithville yesterday was  $-1^{\circ}\text{F}$ . The low temperature for Bronson yesterday was  $3^{\circ}\text{F}$ . Write an inequality to compare the temperatures. Explain the meaning of the inequality.

$$-1^{\circ} < 3^{\circ}$$

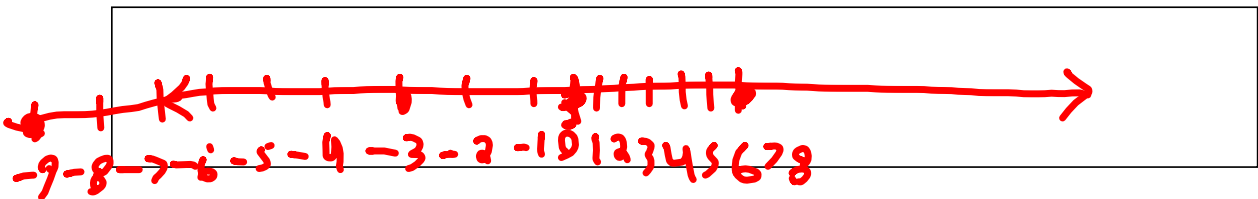
Smithville is colder than Bronson.

3. Order the set  $\{-9, 6, -3, 0\}$  from least to greatest.

**Method 1** Use a number line.

1

Graph the numbers on a number line.



2

The order from left to right is  $-9, -3, 0, 6$

$-9, 6, -3, 0$

3

**Method 2** Compare signs and values.

Compare negative numbers. Then compare positive numbers.

4

The negative integers are  $-9, -3$

The integer 0 is neither  $\text{positive nor negative}$

The positive integer is  $6$

5

So, the order from least to greatest is  $-9, -3, 0, 6$

Order 18, 0,  $-10$ , and 12 from least to greatest.

$-10, 0, 12, 18$



**HOMEWORK**



Name \_\_\_\_\_

Unit \_\_\_\_ Lesson \_\_\_\_\_ Due Date \_\_\_\_\_

Fill in each  $\bigcirc$  with  $<$ ,  $>$ , or  $=$  to make a true statement. (Example 1)

1.  $-2 \bigcirc -4$

2.  $1 \bigcirc -3$

3.  $5 \bigcirc 0$

4. Amy is building a house. The basement floor is at  $-15$  feet. The roof of the house is above the ground 25 feet. Write an inequality to compare the heights. Explain the meaning of the inequality. (Example 2)

\_\_\_\_\_

\_\_\_\_\_

5 The low temperature in Anchorage, Alaska, one day was  $-9^{\circ}\text{F}$ . On the same day, the low temperature in Flagstaff, Arizona, was  $26^{\circ}\text{F}$ . Write an inequality to compare the temperatures. Explain the meaning of the inequality. (Example 2)

\_\_\_\_\_

\_\_\_\_\_

Order each set of integers from least to greatest. (Example 3)

6.  $\{15, 17, 21, 6, 3\}$

\_\_\_\_\_

7  $\{-55, 143, 18, -79, 44, 101\}$

\_\_\_\_\_

8. The table indicates Xavier's cell phone use over the last four months. Positive values indicate the number of minutes he went over his allotted time, and negative values indicate the number of minutes he was under. Arrange the months from least to most minutes used. (Example 4)

\_\_\_\_\_

Month	Time (min)
February	-156
March	12
April	0
May	-45

Fill in each  $\bigcirc$  with  $<$ ,  $>$ , or  $=$  to make a true statement.

15.  $-2 < 4$



Since -2 is to the left of 4,  
 $-2 < 4$ .



16.  $-6 \bigcirc 3$

17.  $-3 \bigcirc 2$

18. The elevation of Driskill Mountain, Louisiana, is 163 meters above sea level. Death Valley has an elevation of  $-86$  meters. Write an inequality to compare the elevations. Explain the meaning of the inequality.

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19. Yvonne owes her sister \$25. Michael's checking account balance is  $-\$20$ . Write an inequality to compare the amounts. Explain the meaning of the inequality.

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Order each set of integers from least to greatest.

20.  $\{14, 1, 6, 23, 7, 5\}$

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21.  $\{-221, 63, 54, -89, -71, -10\}$

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22. Gary, Sindhu, and Beth are all waiting for their trains to arrive. Gary's train leaves at 5 minutes before noon, Sindhu's leaves at 25 minutes after noon, and Beth's leaves 5 minutes before Sindhu's train. Order the three by who will leave first.

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