

## 6.2 Comparing and Ordering Integers Notes

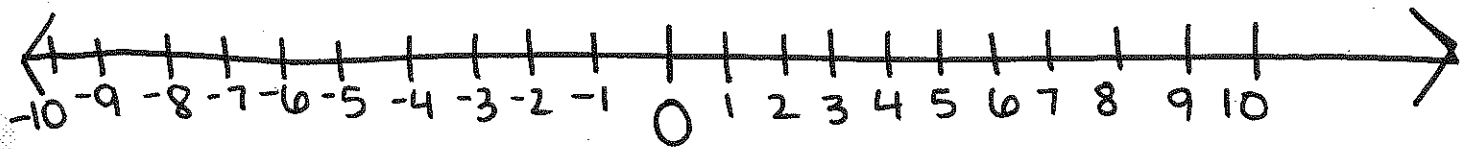
When you compare integers you consider their position on the number line.

### Inequality Symbols:

- > greater than
- < less than
- = equal to

On a horizontal number line:

- Numbers to the left are less than numbers to the right.
- Numbers to the right are greater than numbers to the left.



Complete the statement using < or >.

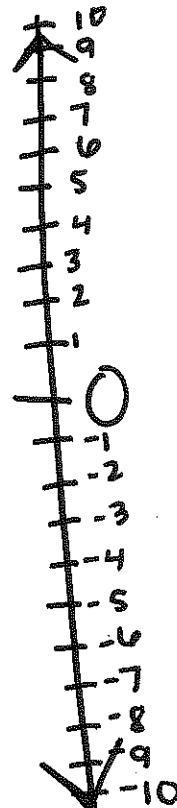
- a)  $2 > -6$       b)  $-2 > -10$       c)  $0 > -4$       d)  $-5 < 5$

On a vertical number line:

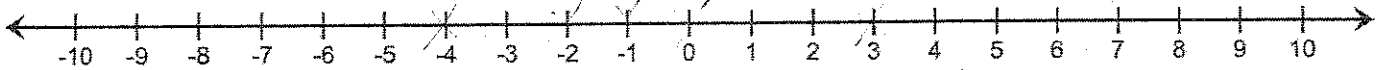
- Numbers below are less than numbers above.
- Numbers above are greater than numbers below.

Complete the statement using < or >.

- e)  $-5 < -3$       f)  $-8 < -7$
- g)  $-1 > -2$       h)  $3 > -1$



Name: \_\_\_\_\_ Hour: \_\_\_\_\_



Order ~~4~~, ~~3~~, ~~0~~, ~~-1~~, ~~-2~~ from least to greatest. -4, -2, -1, 0, 3

Order ~~7~~, ~~9~~, ~~0~~, ~~-7~~, ~~1~~ from greatest to least. 9, 1, 0, -3, -7

Order ~~2~~, ~~-3~~, ~~3~~, ~~1~~, ~~-1~~ from greatest to least. 3, 1, -1, -2, -3

Order 4, ~~-7~~, ~~8~~, 6, ~~1~~ from least to greatest. -8, -7, 1, 4, 6

A number is greater than -8 and less than 0.

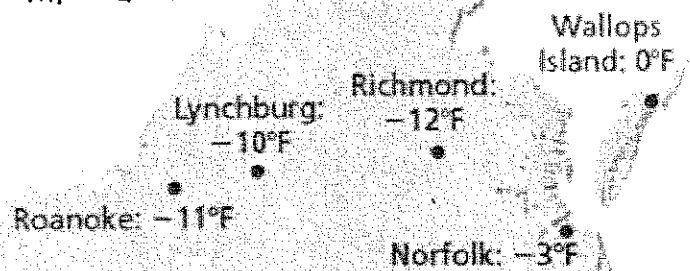
What is the greatest possible integer value of this number? -1

What is the least possible integer value of this number? -7

The diagram shows the coldest recorded temperatures for several cities in Virginia.

a) Which city has the coldest recorded temperature?

Richmond, -12°F



b) Has a negative Fahrenheit temperature ever been recorded on Wallops Island? Explain.

NO, BECAUSE IT'S LOWEST TEMPERATURE WAS ZERO.