

6.2 Comparing and Ordering Integers

ESSENTIAL QUESTION: How can you use a number line to compare integers?

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.

EXAMPLE 1

Comparing Integers on a number line.

2 is to the right of -6.
1) Compare 2 and -6. $2 > -6$

-5 is to the left of -3.
2) Compare -5 and -3. $-5 < -3$



On Your Own

Copy and complete the statement using $<$ or $>$.

1) $0 > -4$

2) $-5 < 5$

3) $-8 < -7$

EXAMPLE 2

Order the integers from least to greatest.

1) -4, 3, 0, -1, -2

$-4, -2, -1, 0, 3$

2) -2, -3, 3, 1, -1

$-3, -2, -1, 1, 3$

3) 4, -7, -8, 6, 1

$-8, -7, 1, 4, 6$

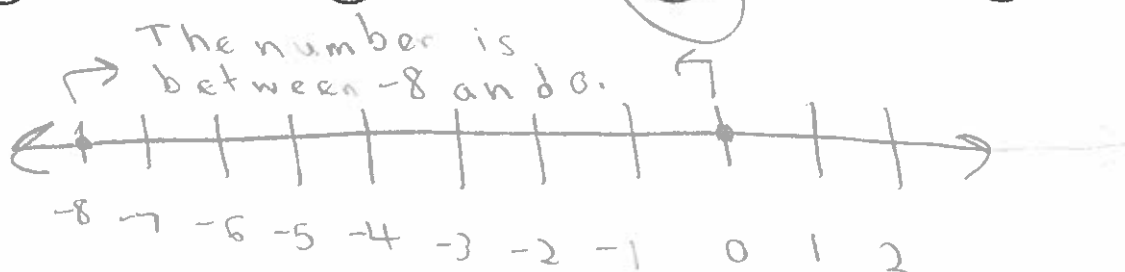
A number is greater than -8 and less than 0. What is the greatest possible integer value of this number?

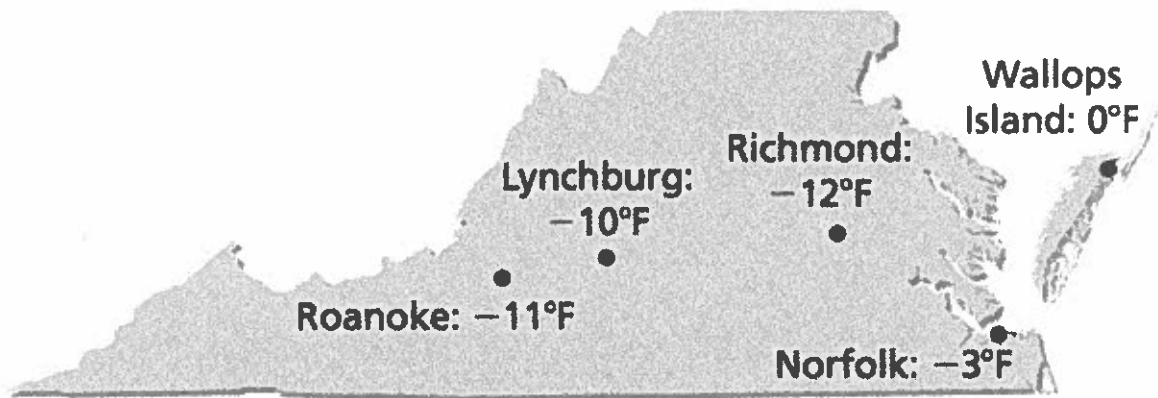
(A) -10

(B) -7

(C) -1

(D) 2





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

1) Which city has the coldest recorded temperature? *Richmond*

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

No because it says the coldest recorded temperature for Wallops Island is 0°.