

6.2

Comparing and Ordering Integers

Do Now

Identify the location of the point on the number line.

1. A

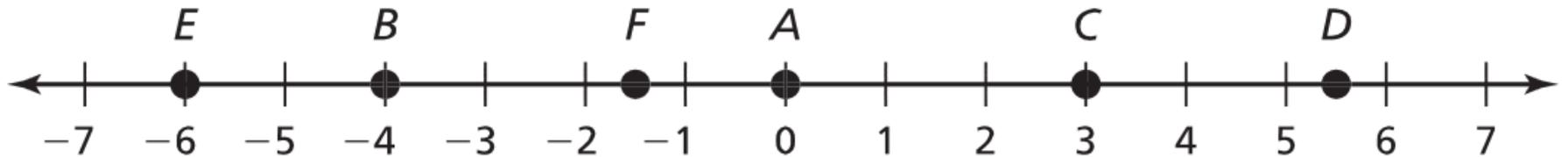
2. B

3. C

4. D

5. E

6. F



Example 1

Use a number line to help explain the comparison between 2 and -6

Practice

Use a number line to help explain the comparison between -2 and -10 .

Practice

Order the following from least to greatest.

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

2) $-3, 9, 0, -7, 1$

Example 2

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

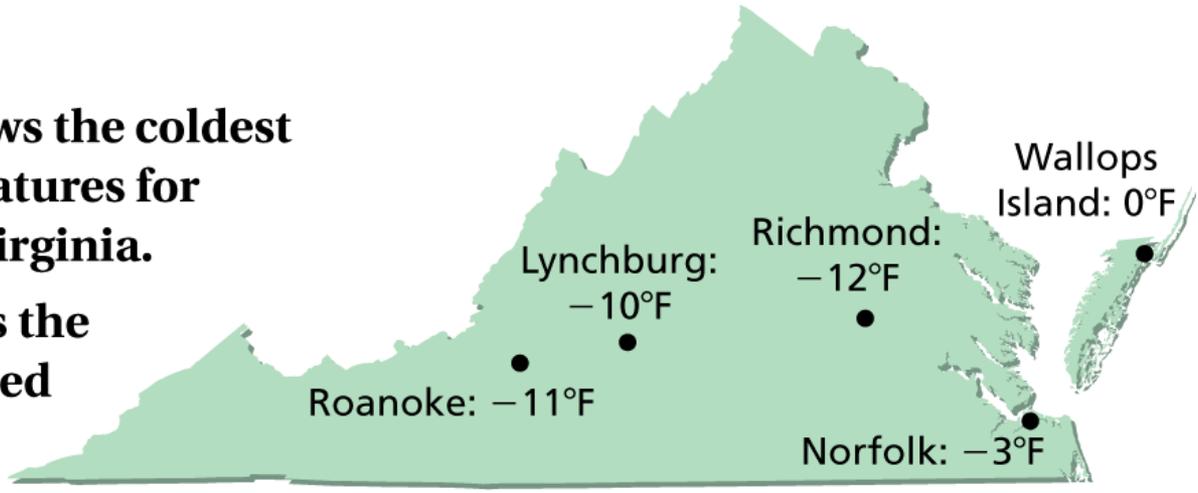
(D) 2

Practice

3) A number is between -7 and 3 . What is the least possible integer value of this number? Explain.

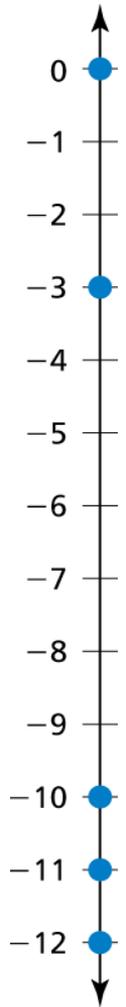
Real-Life Application

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



a. Which city has the coldest recorded temperature?

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



Real-Life Application

You are listening to a command center before the liftoff of a rocket.

a. Use a number line to show that the phrase “3 seconds away from liftoff” can have two meanings.

b. Reword the phrase “3 seconds away from liftoff” in two ways so that each meaning is absolutely clear.

c. Explain why you must be very careful with terminology if you are working in the command center for a rocket launch.

