

6.2

Comparing and Ordering Integers

Do Now

Identify the location of the point on the number line.

1. A

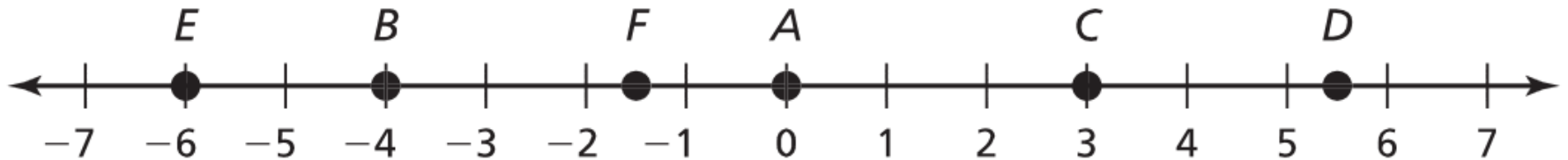
2. B

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?

Ⓐ -10

Ⓑ -7

Ⓒ -1

Ⓓ 2

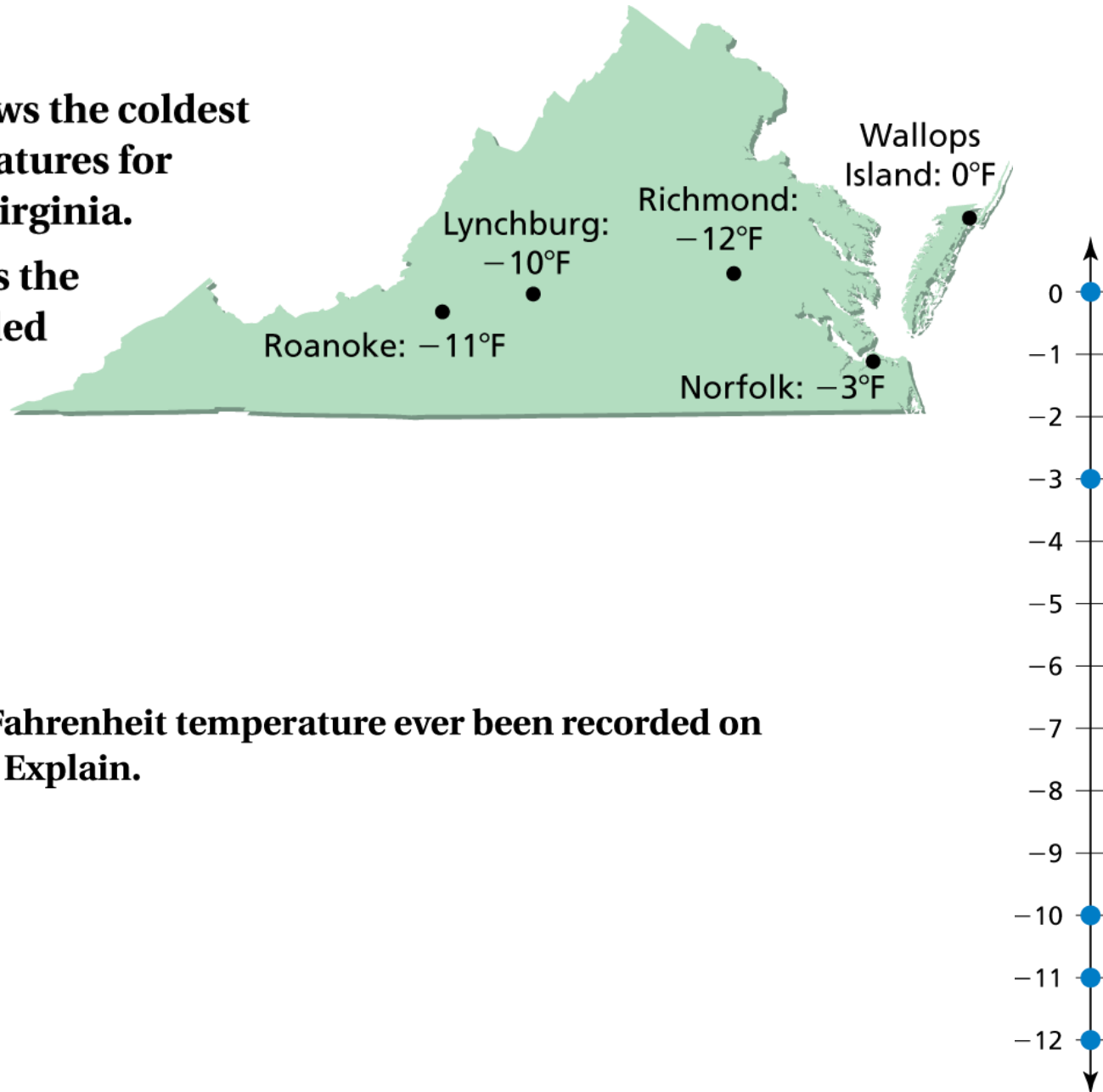
Practice

- 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.

