

6.3 NEGATIVE FRACTIONS & DECIMALS

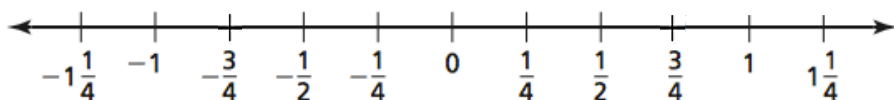
Guided Notes

1

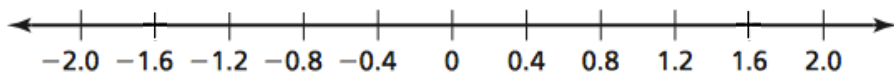
EXAMPLE 1 Graphing Negative Fractions and Decimals

In Section 6.1, you learned that $\frac{3}{4}$ can be $\frac{3}{4}$ and $-\frac{3}{4}$ can also be negative.

a. $\frac{3}{4}$ Graph each number and its opposite.



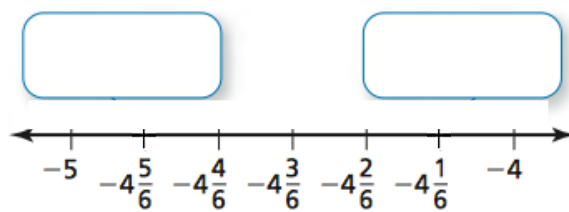
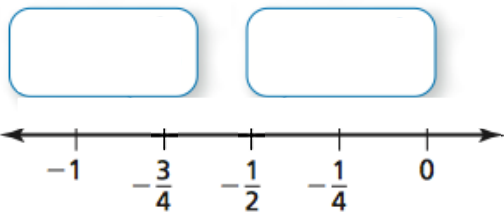
b. -1.6



EXAMPLE 2 Comparing Fractions and Mixed Numbers

a. Compare $-\frac{1}{2}$ and $-\frac{3}{4}$.

b. Compare $-4\frac{5}{6}$ and $-4\frac{1}{6}$.



$-\frac{1}{2}$ is to the of $-\frac{3}{4}$.

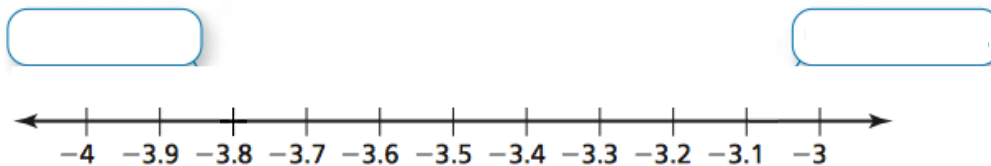
$-4\frac{5}{6}$ is to the of $-4\frac{1}{6}$.

∴ So, $-\frac{1}{2}$ $-\frac{3}{4}$.

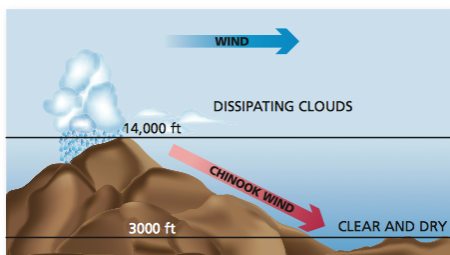
∴ So, $-4\frac{5}{6}$ $-4\frac{1}{6}$.

EXAMPLE 3 Comparing Decimals

2

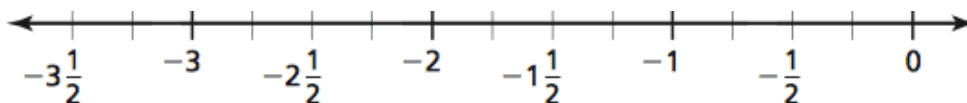
Compare -3.08 and -3.8 . -3.08 is to the _____ of -3.8 .So, -3.08 _____ -3.8 .**EXAMPLE 4 Real-Life Application**

A *Chinook wind* is a warm mountain wind that can cause rapid temperature changes. The table shows three of the greatest temperature drops ever recorded after a Chinook wind occurred. On which date did the temperature drop the fastest? Explain.



Date	Temperature Change
January 10, 1911	$-3\frac{1}{10}$ °F per minute
November 10, 1911	$-\frac{5}{8}$ °F per minute
January 22, 1943	$-2\frac{1}{5}$ °F per minute

Graph the numbers on a number line.



_____ is farthest to the _____

So, the temperature dropped the fastest on _____