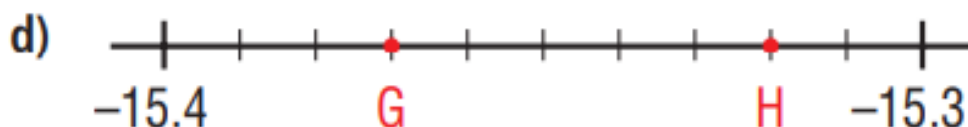
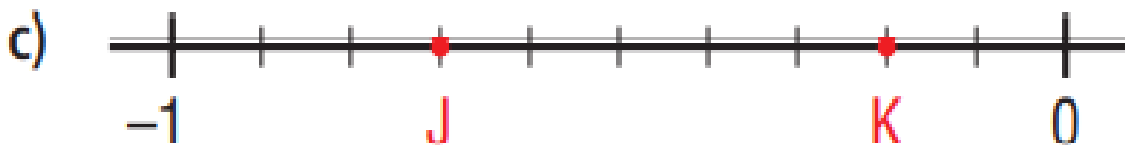
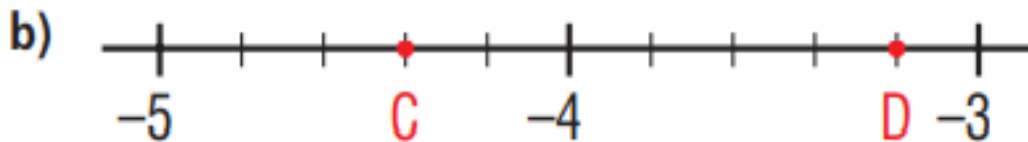
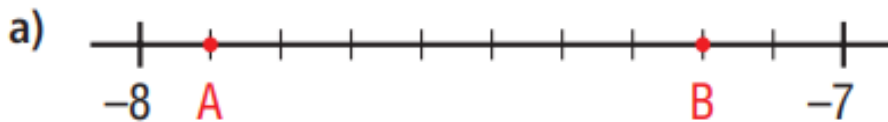


# Class/Homework

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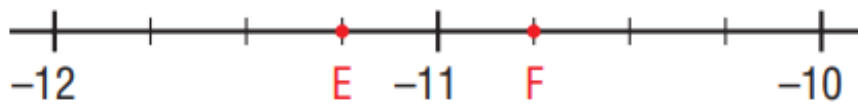
Question 8, 10

8. Write the rational number represented by each letter on the number line, as a fraction then a decimal.

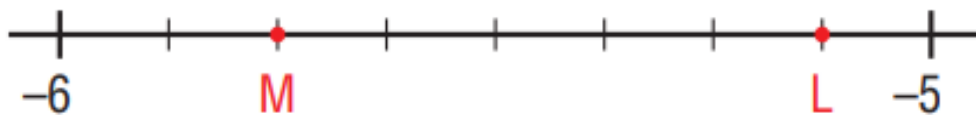


**10.** Write the rational number represented by each letter on the number line, as a fraction.

a)



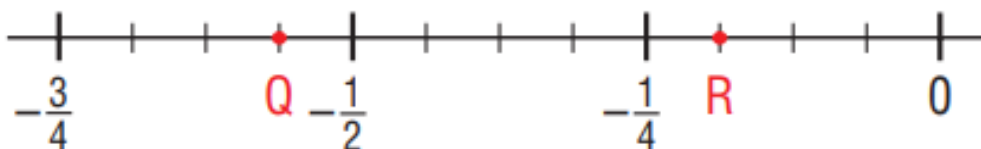
b)



c)



d)

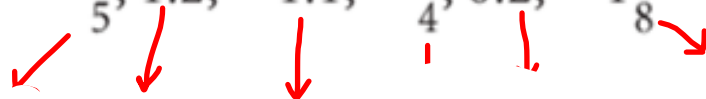


## Mid-Unit Review

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3.1

2. Order the following rational numbers from least to greatest. Place each number on a number line to support your answer.

$$-\frac{6}{5}, 1.2, -1.1, -\frac{1}{4}, 0.2, -1\frac{3}{8}$$


1   )   )   1   1

3. Replace each  $\square$  with  $<$  or  $>$ .

How could you check your answers?

a)  $-\frac{2}{3} \square -\frac{3}{4}$

b)  $-\frac{8}{3} \square -\frac{9}{4}$

c)  $-2.5 \square 0.5$

d)  $-\frac{4}{5} \square -0.9$

4. Identify a rational number between each pair of numbers. Sketch a number line to illustrate each answer.

a) 1.2, 1.4

b)  $-\frac{3}{4}$ ,  $\frac{5}{8}$

c) 0.4,  $\frac{1}{3}$

d) -1.05,  $-\frac{9}{10}$

3.2

5. a) How can you determine the sign of the sum of two numbers before you add them?

b) Determine the sign of each sum, then check by using a calculator.

i)  $2.35 + 3.47 =$

ii)  $-5.783 + (-0.247) =$

iii)  $-\frac{2}{3} + \left(-1\frac{1}{8}\right) =$

iv)  $-5.27 + 6.58 =$

v)  $-\frac{17}{5} + \frac{4}{9} =$

vi)  $0.085 + (-0.125) =$

6. Determine each sum.

a)  $8.37 + 0.58$

=

b)  $-21.25 + (-36.57)$

=

c)  $-157.4 + 32.7$

=

d)  $\frac{5}{8} + \left(-\frac{1}{9}\right)$

e)  $-8\frac{1}{4} + 5\frac{1}{5}$

=

=

=

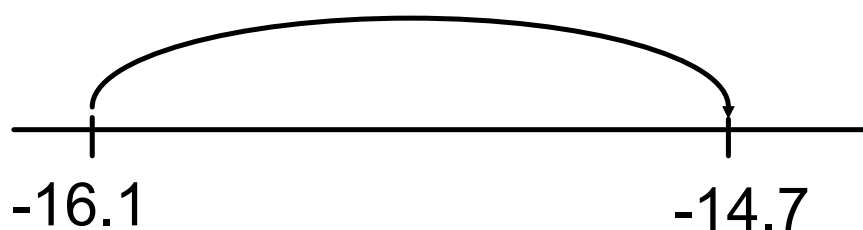
f)  $-\frac{5}{3} + \left(-\frac{23}{7}\right)$

=

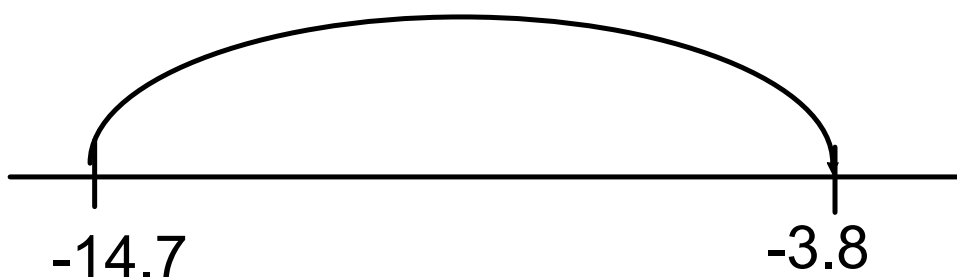
3.3

7. The temperature of a freezer changed from  $-16.1^{\circ}\text{C}$  to  $-14.7^{\circ}\text{C}$ .

- a) i) By how much did the temperature change?  
ii) Is this an increase or a decrease in temperature? Explain how you know.



- b) By how much does the temperature need to change again before it is at  $-3.8^{\circ}\text{C}$ ?





8. Determine each difference.

a)  $40.25 - 63.10$

=

b)  $-112.2 - (-14.8)$

=

c)  $\frac{2}{5} - \frac{9}{10}$

=

=

=

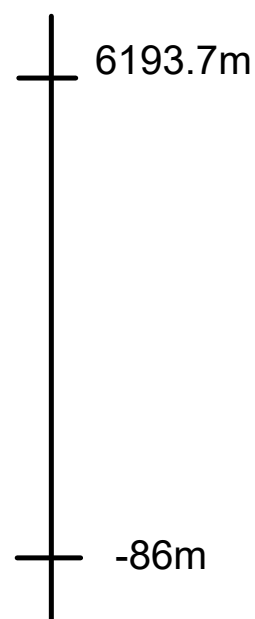
d)  $-4\frac{4}{9} - 3\frac{5}{6}$

e)  $-1.8 - 4.3$

=

f)  $\frac{23}{8} - \left(-\frac{7}{2}\right)$

9. The lowest point on land in North America is Death Valley at 86 m below sea level. The highest point is the peak of Mt. McKinley at 6193.7 m above sea level. How can you use rational numbers to calculate the distance between these two points?



**10. a)** How can you determine the sign of the difference of two numbers before you subtract them?

**b)** Determine the sign of each difference, then check by using a calculator.

i)  $62.4 - 53.7$       ii)  $-0.54 - 1.98$

=

=

iii)  $\frac{1}{12} - \frac{9}{10}$

iv)  $5\frac{2}{3} - \left(-7\frac{1}{2}\right)$

=

=