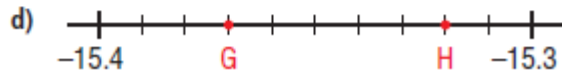
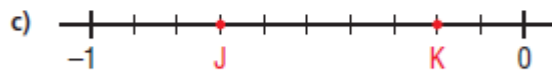
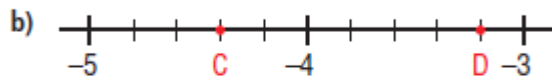
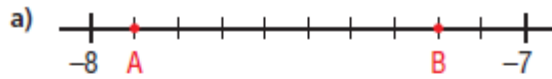


### 3.1 Practice – Rational Numbers

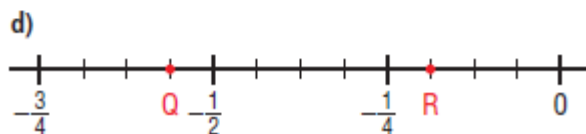
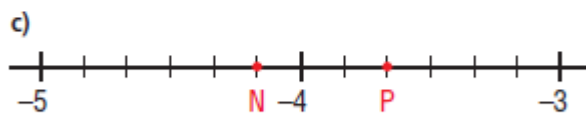
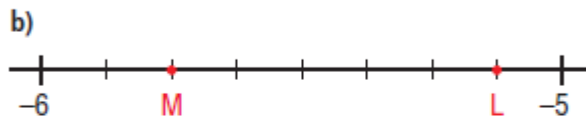
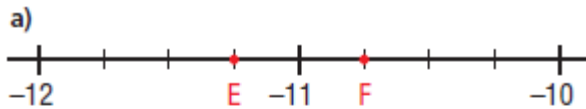
**\*No calculators allowed for this assignment.**

1. Sketch a number line and mark each rational number on it. Order the numbers from greatest to least:  $-2.25$ ,  $\frac{5}{4}$ ,  $-1.5$ ,  $-\frac{1}{8}$ ,  $0.9$

2. Write the rational number represented by each letter on the number line, as a **decimal**.



3. Write the rational number represented by each letter on the number line, as a **reduced mixed or improper fraction**.



4. In each pair, which rational number is **greater**? Explain how you know.

a)  $-7.3, -7.2$

b)  $\frac{4}{5}, \frac{5}{4}$

c)  $1.2, -1.3$

d)  $-\frac{10}{13}, -\frac{10}{11}$

5. In each pair, which rational number is **less**? Explain how you know.

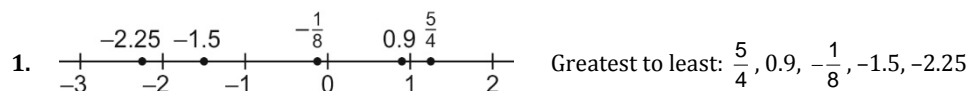
a)  $\frac{3}{4}, \frac{3}{5}$

b)  $2\frac{1}{2}, -1\frac{7}{8}$

c)  $-\frac{13}{10}, -\frac{13}{5}$

d)  $-\frac{11}{3}, -\frac{5}{6}$

### 3.1 Practice - Answers



2. a) A: -7.9 B: -7.2    b) C: -4.4 D: -3.2    c) J: -0.7 K: -0.2    d) G: -15.37 H: -15.32

3. a) E:  $-11\frac{1}{4}$  or  $-\frac{45}{4}$     F:  $-10\frac{3}{4}$  or  $-\frac{43}{4}$     b) L:  $-5\frac{1}{8}$  or  $-\frac{41}{8}$     M:  $-5\frac{3}{4}$  or  $-\frac{23}{4}$

c) N:  $-4\frac{1}{6}$  or  $-\frac{25}{6}$     P:  $-3\frac{2}{3}$  or  $-\frac{11}{3}$     d) Q:  $-\frac{9}{16}$     R:  $-\frac{3}{16}$

4. a)  $-7.2$  is greater because it is to the right of  $-7.3$  on a number line.

b)  $\frac{5}{4}$  is greater because it is equal to  $1\frac{1}{4}$ , which is greater than 1, whereas  $\frac{4}{5}$  is less than 1.

c) 1.2 is greater since it is positive.

d) Making common denominators,  $-\frac{10}{13} = -\frac{110}{143}$  and  $-\frac{10}{11} = -\frac{130}{143}$  on a number line. Since -110 is greater than -130,

$-\frac{10}{13}$  is greater.

5. a)  $\frac{3}{5}$     b)  $-1\frac{7}{8}$     c)  $-\frac{13}{5}$     d)  $-\frac{11}{3}$