

Please complete this assignment in your Assignment Book. Remember to include the proper headings: your name; date; and title of the assignment.

2.1 Comparing and Ordering Rational Numbers Worksheet

1. Identify the rational numbers.

a) 17 $\frac{5}{0}$ -3.606 $\sqrt{3}$ $-8\frac{3}{4}$

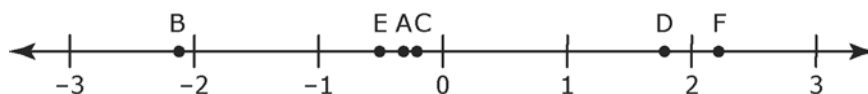
b) -0.2 $9.\overline{12}$ $\frac{0}{0}$ $-\frac{13}{4}$ 7.1234...

2. Write the opposite of each rational number.

a) 9 b) $-\frac{23}{3}$ c) -17.6

d) $6.\overline{12}$ e) 401 f) $-7\frac{5}{7}$

3. Match each letter on the number line to one of the following rational numbers.



$\frac{7}{4}$	-0.3	$2\frac{1}{5}$
$-\frac{1}{3}$	-2.1	$-0.4\overline{9}$

4. Compare $-\frac{3}{4}$, 1.7, -0.6, $1\frac{1}{2}$, and $-0.\overline{6}$. Write the numbers in ascending order.

5. Compare -0.5, $\frac{11}{6}$, $-\frac{2}{3}$, 1.9, and $1.\overline{3}$. Write the numbers in descending order.

6. Identify the equivalent fraction pairs.

a) $-\frac{10}{4}$, $-\frac{10}{-4}$ b) $-\frac{7}{14}$, $-\frac{1}{2}$ c) $-\frac{5}{-2}$, $\frac{5}{2}$

7. Identify the equivalent rational number pairs.

a) $\frac{-3}{-2}, 1\frac{1}{2}$

b) $4.\bar{6}, 4\frac{2}{3}$

c) $-0.8, \frac{-4}{-5}$

8. Identify the smaller value in each pair.

a) $-\frac{1}{2}, \frac{3}{4}$

b) $\frac{7}{8}, \frac{8}{9}$

c) $-\frac{3}{7}, -\frac{4}{7}$

d) $-\frac{1}{100}, -\frac{1}{10}$

e) $-2\frac{3}{4}, -2\frac{3}{8}$

f) $0, -\frac{1}{11}$

9. For each of the following pairs of rational numbers,

i) write the rational numbers in decimal form

ii) identify a decimal number between the pair of decimal numbers

a) $\frac{1}{4}, \frac{1}{2}$

b) $-\frac{2}{5}, -\frac{3}{5}$

c) $-\frac{1}{10}, -\frac{1}{8}$

d) $-\frac{2}{3}, -\frac{5}{6}$

e) $-1\frac{3}{4}, -1\frac{4}{5}$

f) $-1\frac{19}{20}, -2$

10. For each of the following pairs of rational numbers,

i) write the rational numbers in fraction form

ii) identify a fraction between the pair of fractions

a) $0.8, 0.9$

b) $-0.65, -0.66$

c) $-0.9, -1$

11. Express each rational number as a fraction or mixed number in lowest terms.

a) $7 \div (-14)$

b) $-75 \div 100$

c) -4.4

12. Which integers are between $\frac{16}{3}$ and $\frac{-9}{2}$?