

## Compare/Convert Practice Worksheet

### Multiple Choice

Identify the choice that best completes the statement or answers the question.

\_\_\_\_\_ 1. Which set of rational numbers is arranged from greatest to least?

a.  $-\frac{6}{5}, -\frac{1}{2}, 0, \frac{1}{9}, 0.6, 1.0$

c.  $-3.25, \frac{1}{8}, \frac{7}{5}, 0.5, \frac{1}{3}, \frac{5}{6}$

b.  $-1.375, \frac{3}{8}, \frac{1}{2}, 0.9, -\frac{1}{10}, -0.7$

d.  $\frac{9}{8}, \frac{7}{6}, -\frac{5}{12}, -1.1, -\frac{10}{5}, -3.6$

\_\_\_\_\_ 2. Which set of integers is arranged from least to greatest?

a.  $-3, +3, -2, +2, -1, +1$

c.  $-7, -5, -1, 0, +3, +4$

b.  $+4, +2, +1, -4, -7$

d.  $0, +4, -5, +6, -7$

### Short Answer

3. Write the following rational numbers in order from greatest to least:

$\frac{19}{25}, 0.33, 68\%, \frac{14}{20}, 50\%$

4. Write the following rational numbers in descending order:

$37.5\%, \frac{3}{16}, 0.063, \frac{5}{8}, 0.125$

5. Write the following rational numbers in order from greatest to least:

$\frac{5}{6}, 0.121, \frac{8}{9}, 70\%, \frac{11}{12}$

6. Write the following rational numbers in ascending order:

$\frac{3}{4}, \frac{13}{17}, 0.888, \frac{11}{15}, 77.7\%$

7. Write the following rational numbers in order from smallest to largest:

$\frac{3}{6}, 0.834, \frac{12}{18}, \frac{4}{18}, 0.522$

Name: \_\_\_\_\_

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8. Identify the largest rational number and the smallest rational number in the following set of numbers:

$$0.84, \frac{1}{2}, \frac{3}{4}, 126.7\%, \frac{4}{6}$$

9. Write the following rational numbers in order from greatest to least:

$$\frac{7}{9}, 0.313, \frac{9}{24}, \frac{3}{4}, 0.88$$

10. Write the following rational numbers from smallest to largest?

$$80\%, \frac{10}{15}, 0.790, \frac{7}{9}, 1.25$$

11. Write the following rational numbers in descending order:

$$1, \frac{2}{6}, 16\frac{2}{3}\%, 0.667, \frac{4}{8}$$

12. Write the following rational numbers from smallest to largest?

$$45\frac{3}{4}, 12.94, 74.96, 1893\%, 33.08$$

13. Write the following rational numbers from smallest to largest?

$$\frac{5}{6}, 90\%, \frac{11}{12}, 72\%, \frac{13}{13}$$

14. Identify the two largest rational numbers in the following set of numbers:

$$50\%, \frac{5}{6}, \frac{3}{4}, 0.875, \frac{1}{3}$$

15. Write the following rational numbers in order from largest to smallest:

$$\frac{2}{3}, \frac{7}{8}, 60\%, 0.7, 1\frac{3}{10}$$

Name: \_\_\_\_\_

### Comparing and Ordering Real Numbers Worksheet

Write the numbers in ascending order.

1)  $0, -\sqrt{2}, \sqrt{5}, \frac{13}{4}$

2)  $3, \sqrt{10}, \frac{3}{4}, -1.5$

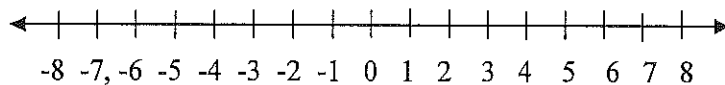
3)  $2, -\frac{3}{7}, 0.75, -\frac{3}{2}$

4) Which list shows the numbers in increasing order?

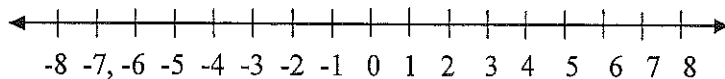
A)  $-0.5, 1.5, -2, -0.75, \sqrt{7}$     B)  $-0.5, -2, -0.75, 1.5, \sqrt{7}$

C)  $-2, -0.75, -0.5, 1.5, \sqrt{7}$     D)  $\sqrt{7}, 1.5, -0.5, -0.75, -2$

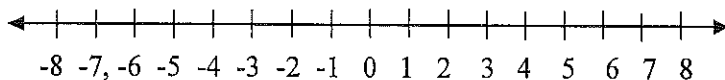
5) Graph the numbers  $-0.2, \frac{7}{10}, -1, \sqrt{2}$ , and  $-4$  on a number line.



6) Graph the numbers  $-\frac{3}{4}, 5, \frac{9}{2}, -2$ , and  $-1$  on a number line.



7) Graph the numbers  $-3, \frac{5}{2}, 2, -\frac{9}{4}$ , and  $4$  on a number line.



Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_  
Ordering and Comparing Rational & Irrational Numbers (h)

Order each set of ratios from least to greatest

1) 22%, 0.3,  $\frac{2}{10}$ , (

2)  $\frac{1}{5}$ , 2%, .18,  $\sqrt{8}$

3) 0.74,  $\frac{3}{4}$ , 70%,  $\sqrt{6}$

4.) .85, 75%,  $\frac{22}{7}$ ,  $\frac{9}{16}$

5) .1,  $\frac{1}{4}$ , 33%,  $\sqrt{6}$

6)  $\frac{7}{20}$ , .485, 39%,  $\sqrt{2}$