

Name: _____ Class: _____ Date: _____

Key

Compare/Convert Practice Worksheet

Multiple Choice

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

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

C 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:

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

4. Write the following rational numbers in descending order:

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

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

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

6. Write the following rational numbers in ascending order:

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

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

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

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

$$0.84, \frac{1}{2}, \frac{3}{4}, 126.7\%, \frac{4}{6} \quad \text{smallest } \frac{1}{2} \quad \text{largest } 126.7\%$$

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

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

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

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

11. Write the following rational numbers in descending order:

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

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

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

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

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

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

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

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

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

Name: _____

Comparing and Ordering Real Numbers Worksheet

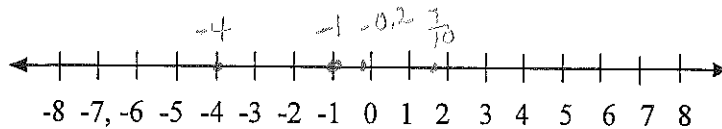
Write the numbers in ascending order.

- 1) $0, -\sqrt{2}, \sqrt{5}, \frac{13}{4}$ $-\sqrt{2}, 0, \sqrt{5}, \frac{13}{4}$
- 2) $3, \sqrt{10}, \frac{3}{4}, -1.5$ $-1.5, \frac{3}{4}, 3, \sqrt{10}$
- 3) $2, -\frac{3}{7}, 0.75, -\frac{3}{2}$ $-\frac{3}{2}, -\frac{3}{7}, 0.75, 2$
- 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) $\sqrt{7}, 1.5, -0.5, -0.75, -2$

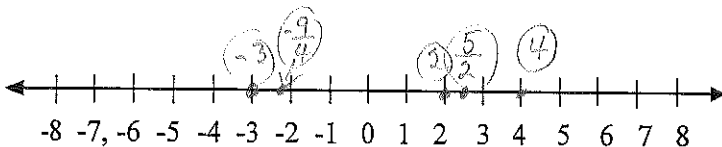
- 5) Graph the numbers $-0.2, \frac{7}{10}, -1, \sqrt{2}$, and -4 on a number line.



- 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)

Key

Order each set of ratios from least to greatest

1) 22%, 0.3, 2/10

$\frac{2}{10}$, 22%, 0.3

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

2%, .18, $\frac{1}{5}$, $\sqrt{8} = 2.8284$

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

70%, 0.74, $\frac{3}{4}$, $\sqrt{6} = 2.4494$



4.) .85, 75%, 22/7, 9/16

$\frac{9}{16}$, 75%, .85, $\frac{22}{7}$ \leftarrow \uparrow as fractions

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

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

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

$\frac{7}{20}$, 39%, .485, $\sqrt{2} = 1.4142$