

Name: _____

Rational Numbers

Write the decimal as a fraction or mixed number.

1) $0.\overline{8}$

2) $0.\overline{7}$

3) $-9.\overline{6}$

4) $-0.\overline{4}$

5) $-1.\overline{36}$

6) $0.\overline{12}$

7) $2.\overline{707}$

8) $0.\overline{897}$

Order the numbers from least to greatest.

9) $-2, \frac{7}{8}, 0.8, 2.1, 1\frac{1}{3}$

10) $0.3, 0.\overline{3}, 0.\overline{30}, -0.3, -0.\overline{3}$

11) $0.21, 2.3, \frac{8}{3}, -0.1, -\frac{1}{5}, 0.\overline{2}$

12) $0.7, -1, -\frac{5}{4}, \frac{4}{3}, -2.3, -\frac{9}{2}$

13) You have a rope that is $4\frac{1}{3}$ feet long. Your friend has a rope that is $1\frac{1}{2}$ yards long. Who has the longer rope?

14) Let a and b represent nonzero integers. Find a rational number in the form $\frac{a}{b}$ so that $-1.7 < \frac{a}{b}$ and $\frac{a}{b} < -\frac{5}{3}$. Explain how you found the number.

15) Write the decimal $0.\overline{321}$ as a fraction.