Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sect \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

RATIONAL NUMBERS AND OPERATIONS QUIZ

Q: What did the pig say at the beach on a hot summer’s day?

A: Man, I’m bacon out here!

1. In its simplest definition, a rational number is any number that can be written as a

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1 pt)

1. A fraction in its simplest form is referred to as being

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1 pt)

Convert the following fractions to decimals: (2 pts each)

1. $\frac{4}{12}$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4) $\frac{33}{88} $ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. $\frac{5}{13}$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6) $\frac{12}{9} $ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Convert the following decimals to fractions: (2 pts each)

7) .04 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8) .55 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9) 2.85 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10) .008 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solve the following problems. Write the answers in simplest form: (2 pts each)

11) $\frac{6}{7} × \frac{1}{3}= \\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$ 12) $1 \frac{4}{5}-\frac{1}{8}= \\_\\_\\_\\_\\_\\_\\_\\_\\_$

13) $2 \frac{3}{4} ÷\frac{1}{3}= \\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$ 14) $\frac{3}{2}+\frac{4}{3}= \\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$

15) .864 ÷ .02 = \_\_\_\_\_\_\_\_\_\_\_\_ 16) Torii has $\frac{4}{5}$ a pound of cashews. She gives away ½ a pound to her brother. How many pounds does she have left?

Compare the following rational numbers: (˂, ˃, or =)

$\frac{7}{8}$ \_\_\_\_\_\_\_\_\_\_\_\_ .85 2.6 \_\_\_\_\_\_\_\_\_\_\_ 2 $\frac{2}{3}$

1 $\frac{5}{8} $ \_\_\_\_\_\_\_\_\_\_\_ 1.625 $\frac{1}{12} $\_\_\_\_\_\_\_\_\_\_\_ .06