Comparing Bits and Pieces UNIT TEST STUDY GUIDE

Name_____Date_____Hour_____

1.) Write each of the following as a fraction, decimal, and percent.

Words	Fraction	Decimal	Percent
a. 20 days out of 100 days			
b. 12 correct out of 25 problems			
c. 2 out of 5 games lost			
d. 11 out of 20 candy bars eaten			

2.) The ratio of female cows to the total cows in a herd on a farm is 10 to 25.

    a. What fraction of the herd is female? What percent is female?

    b. What fraction of the heard is male? What percent is male?
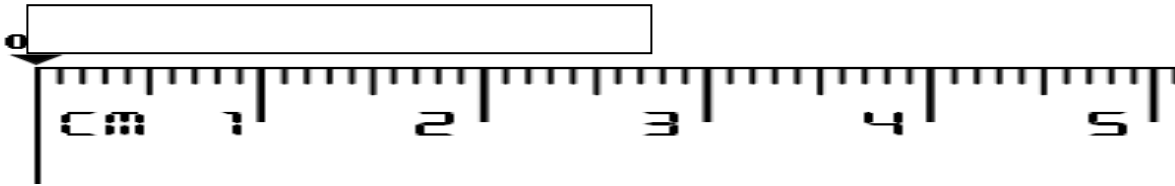
3.) Circle the fraction, decimal or percent that is not equivalent to the others. EXPLAIN why it is not equivalent.

a)   7 %   0.7   0.70

b)   12/5   1.25   2.4

c)   4/25   4.25   16%

4.)

a. What fraction of a centimeter is each millimeter? _____

b. Show a mark on the ruler at 4.6cm.

c. How many millimeters is 4.6 cm? _____

d. According to the ruler, how long is the rectangle?_____

5.) Order the following decimals from least to greatest:

0.0579   5   0.5   0.59   0.0599   0.05

_____   _____   _____   _____   _____   _____

6.) Order the following decimals from least to greatest:

-1.439-2.04   -2.4   -0.4299   -2.0499   -2.399

_____   _____   _____   _____   _____   _____

7.) For each pair of fractions, decide if they are equivalent or not equivalent. **EXPLAIN.**

1) $^8/_{12}$ _____ ¾   2) - $^5/_8$_____-$^6/_{10}$ 3) $^5/_4$ _____ $1\,^7/_{12}$

8.) Kiera was listening to the radio on her way home from school.   In the twenty minutes it took her to get home, there were five minutes of songs playing and the rest of the time was commercials.

a. What is the ratio of minutes with songs playing to the number of minutes she listened to the radio?

b. Write your previous answer as a unit rate.

c. Suppose Kiera continues to listen to the radio. How many minutes will there be songs playing if she listens for one hour?

9.)   How many fourths are in 3 $^5/_4$?

How many sixths are in 2 $^5/_6$?

How many fifths are in 2.6?

10.) Write each fraction as a decimal.

    a. 2 $^3/_{100}$ b. - $^5/_8$ c. $^{21}/_{70}$

11.) Write each decimal as a fraction.

    a. -0.9   b. 0.05   c. -3.402