Comparing Bits and Pieces Study Guide

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

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| --- | --- | --- | --- |
| **Ratio** | **Fraction** | **Decimal** | **Percent** |
| 40 minutes out of 160 minutes |  |  |  |
| 10 correct out of 25 problems |  |  |  |
| 4 out of 5 games won |  |  |  |
| 32 out of 40 dogs |  |  |  |

1. The ratio of puppies to total animals is 15 to 40.
   1. What fraction of the animals are puppies? What percent are puppies?
   2. What fraction of the animals are not puppies? What percent are not puppies?
2. For parts a-c, circle the fraction, decimal, or percent that is not equivalent to the others. EXPLAIN why it is not equivalent.
   1. 0.08 0.80 8%
   2. 1/5 40% 0.2
   3. 9/6 150% 0.15
3. Arrange these decimals from least to greatest:

5.7 7.5 0.75 0.75 0.05

1. Arrange these decimals from least to greatest:

-2.3 -0.23 -0.03 -0.2 -0.32

1. Decide whether each pair of fractions is equivalent ( = ) or not equivalent ( ). Explain your reasoning.
   1. 3/5 \_\_\_\_ 6/10
   2. -2/3 \_\_\_\_\_ -9/3
   3. 13/4 \_\_\_\_\_ 3 ½
2. Ms. Lezotte was listening to her Pandora musicals playlist. She noticed that during one hour, 12 songs were played and 4 of them were from Hamilton.
   1. What is the ratio of songs from Hamilton to the number of songs played?
   2. Write this as a unit rate.
   3. Suppose the Pandora station continues to play this ratio of songs. How many times will Ms. Lezotte hear songs from Hamilton in the next 6 hours?
3. How many fifths are in -8 ⅖?
4. How many tenths are in 2.6?
5. Write each fraction as a decimal.
   1. -4
6. Write each decimal as a fraction.
   1. 0.4
   2. 0.09
   3. 2.53