Name _____ Date _____

Comparing and Rounding Decimals: Reading Every Place to Thousandths

Directions: The places after the decimal point are tenths, hundredths and thousandths. To compare two decimals, start at the left and find the first place where the digits differ. To round, find the two nearest numbers in the place you are rounding to, and pick the closer one.

1. Which decimal is four and thirty-two thousandths?

A. 0.432 B. 4.032 C. 4.302 D. 4.32

2. Which number is equal to $6 \times 10 + 2 \times 1 + 5 \times (1/10) + 8 \times (1/1000)$?

A. 62.58 B. 6.258 C. 62.058 D. 62.508

3. Write $7 + 0.3 + 0.04$ as one decimal.

_____

4. Compare each pair of decimals. Pick the sign that makes each comparison true: $<$, $=$ or $>$.

Word bank

$<$ • $>$ • $=$

First: 0.4 _____ 0.375. Second: 2.050 _____ 2.05. Third: 0.089 _____ 0.09.

5. Two students compare 0.7 and 0.685.

• Marco says 0.685 is greater, because 685 is greater than 7.
• Yara says 0.7 is greater, because 0.7 is 700 thousandths and 0.685 is 685 thousandths.

Which student compared the decimals correctly?

A. Neither, because the two decimals are equal.

B. Yara, because 7 tenths is more than 6 tenths, so the later digits cannot make 0.685 greater.

C. Marco, because a decimal with more digits is a greater number.

6. Which number is less than 1.08?

A. 1.1 B. 1.085 C. 1.80 D. 1.079

7. Round 4.386 to the nearest tenth.

_____

8. What is 12.674 rounded to the nearest hundredth?

_____

9. A puppy weighs 7.52 pounds. What is its weight rounded to the nearest whole pound?

_____ pounds

10. Which numbers round to 2.5 when you round to the nearest tenth? Select the two that round to 2.5.

☐ A. 2.56 ☐ B. 2.39 ☐ C. 2.54

☐ D. 2.44 ☐ E. 2.46