Comparing and Ordering Decimals

To compare two decimals, line up the decimal points. Beginning at the left, compare the value of the digits in each place. The greater number is the number with greater digit farthest to the left.

The symbol < means is less than.

4.2 < 4.6

The symbol > means is greater than.

2.7 > 2.3

The symbol = means is equal to.

3.4 = 3.40

Compare: 2.6 and 2.3

Compare: \$0.08 and \$0.25

Compare 0.4 and 0.47

The ones digits are the same. Compare the tenths.

6 > 3, so 2.6 > 2.3

\$ (0) \cdot (0) 8 \$ (0) \cdot (2) 5 The ones digits are the same. Compare the tenths.

0 < 2, so \$0.08 < \$0.25

0.40Write a zero. The ones and tenths digits are the same. Compare the hundredths. 0 < 7, so 0.4 < 0.47

Compare the decimals in each pair. Write <, >, or =.

Write these numbers in order, beginning with the smallest:

\$2.50 \$0.25 \$1.25 \$1.02 \$1.20 \$1.10 \$1.01 _

If the numbers in each pair below are the same, write S on the line. If they are not the same, write D on the line:

9.
$$\frac{1}{10}$$
 _____ 0.01

$$\frac{5}{10}$$
 _____ 0.5

$$\frac{90}{10}$$
 ____ 0.9

$$\frac{2}{10}$$
 _____ 2.0

10.
$$\frac{7}{100}$$
 _____ 0.7

$$\frac{24}{100}$$
 _____ 0.24

$$\frac{1}{100}$$
 ____ 0.01

$$\frac{130}{100}$$
 _____ 0.13

11.
$$\frac{82}{100}$$
 _____ 0.082 $\frac{33}{100}$ _____ 0.003

$$\frac{33}{100}$$
 _____ 0.003

$$\frac{60}{100}$$
 _____ 0.6

$$\frac{60}{100}$$
 _____ 0.6 $\frac{4}{100}$ _____ 0.4

12.
$$\frac{9}{1.000}$$
 _____ 0.09

$$\frac{42}{1.000}$$
 ____ 0.42

$$\frac{500}{1,000}$$
 _____ 0.5

$$\frac{110}{1,000}$$
 _____ 1.1

- 13. The last digit on all speedometers expresses tenths. The speedometer on Clark's car has five 9's. Express this mileage in decimal form.
- **14.** When his car goes another one tenth of a mile, what will the speedometer read? ______

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Answer Key

- 1. = = < <
- 2. = = < >
- 3. = = < <
- 4. \$0.25, \$1.01,\$1.02, \$1.10, \$1.20, \$1.25, \$2.50, \$25
- 5. D D
- 6. S D
- 7. D S
- 8. D S
- 9. D S D D
- 10. D S S D
- 11. D D S D
- 12. D D S D
- 13. 9,999.9 miles
- 14. 10,000.0 miles