Name _____ Date _____

Place Value and Decimals

Example
8.<u>4</u>5
The underlined digit has a value of four tenths.

In words, what is the value of the underlined digit?

1. 0.0<u>4</u>2 _____   **2.** 9.34<u>1</u> _____

3. 7.3<u>4</u>1 _____   **4.** 0.<u>6</u>5 _____   **5.** 4.6<u>8</u>0 _____

Make a place-value chart. Write each decimal in the chart and in words.

6. 7.301

7. 0.926

8. 9.5

9. 82.08

Write in standard form.

10. thirty-six thousandths _____

11. five and forty-two hundredths _____

12. sixty-eight and two hundred fourteen thousandths _____

13. eighty and three tenths _____

Problem Solving • Reasoning

14. In the State Track Championships, Carlos ran the 200 meter dash in 21.79 seconds. Write this decimal amount in words.

15. At the science museum, a laser measured Karen's height as forty-nine and seventeen thousandths inches. Write this height as a decimal.

Name _____   Date _____

Compare and Order Decimals Less than One

Example
0.54 < 0.58

Compare. Write >, <, or = for each ◯.

1. 0.981 ◯ 0.082   **2.** 0.34 ◯ 0.340

3. 0.081 ◯ 0.81   **4.** 0.4 ◯ 0.08   **5.** 0.62 ◯ 0.70

6. 0.054 ◯ 0.54   **7.** 0.900 ◯ 0.9   **8.** 0.811 ◯ 0.099

Order each set of numbers from greatest to least.

9. 0.032 0.90 0.088   **10.** 0.54 0.82 0.61   **11.** 0.488 0.048 0.15

_____   _____   _____

12. 0.25 0.065 0.84 0.4   **13.** 0.215 0.24 0.241 0.284

_____   _____

14. 0.255 0.248 0.251 0.018   **15.** 0.215 0.051 0.008 0.542

_____   _____

Problem Solving • Reasoning

16. Precious jewels are measured in carats. A jeweler has a ruby weighing 0.627 carats, a diamond weighing 0.82 carats and a pearl weighing 0.092 carats. List the jewels in order from heaviest to lightest.

_____

17. The jeweler has two sapphires. One weighs 0.94 carats. The other weighs 0.099 carats. Write a number sentence using >, < or = to compare the two weights.

_____

Use with text pages 26–27.   9

ame _____   Date _____

Round Decimals

Example
3.58 rounds to **3.6**

Round to the nearest tenth.

1. 0.159 _____   **2.** 0.002 _____   **3.** 5.451 _____

4. 5.21 _____   **5.** 8.517 _____   **6.** 0.87 _____   **7.** 9.99 _____

Round to the nearest hundredth.

8. 0.551 _____   **9.** 0.761 _____   **10.** 0.849 _____

11. 3.518 _____   **12.** 2.0518 _____   **13.** 5.2184 _____

14. 13.5176 _____   **15.** 84.510 _____

Round to the nearest whole number.

16. 3.24 _____   **17.** 9.59 _____   **18.** 6.31 _____   **19.** 25.8 _____

20. 5.6 _____   **21.** 8.138 _____   **22.** 5.849 _____   **23.** 3.99 _____

Problem Solving • Reasoning

24. John's teacher is calculating math test averages. John's average is 88.38. Round this average to the nearest whole number.

_____

25. To qualify for the Math Team, John's average must be greater than 88.5 when rounded to the nearest tenth. Does John qualify? Explain.

_____

_____

_____

) **Use with text pages 28–29.**

Name _____ Date _____

Compare and Order Decimals and Whole Numbers

Example
1.15 > 1.015

Compare. Write >, <, or =.

1. 22 ◯ 22.519   **2.** 4,265 ◯ 4,265

3. 5.315 ◯ 6   **4.** 4.56 ◯ 45.6   **5.** 23.99 ◯ 2.399

6. 8.150 ◯ 8.15   **7.** 85.516 ◯ 85.651   **8.** 5.550 ◯ 5.55

Order each set of numbers from greatest to least.

9. 0.52   5.2   0.052   **10.** 6   5.2   6.51   **11.** 0.81   8.10   8.01

_____   _____   _____

12. 0.42   0.94   0.49   **13.** 0.485   0.082   0.762   **14.** 0.452   0.052   0.254

_____   _____   _____

15. 0.64   6.40   6.04   0.46   **16.** 1.25   5   7.1   0.64   **17.** 0.2   2   0.24   0.244

_____   _____   _____

Problem Solving • Reasoning

18. At the State Track & Field Championships, Rodney threw the shot put 13.09 meters and 13.42 meters. Which throw was longer?

_____

19. At the track meet, Rebecca's time in the 1-mile race was 8.821 minutes. Last year her time was 8.809 minutes. In which year did she have a faster time?

_____