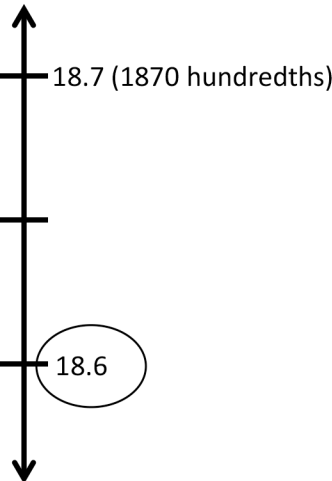Name _____ Date _____

1. Write the decomposition that helps you, and then round to the given place value. Draw number lines to explain your thinking. Circle the rounded value on each number line.

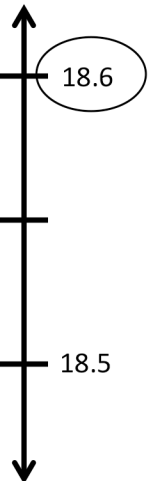   a. 43.586 to the nearest tenth, hundredth, and one.

   b. 243.875 to nearest tenth, hundredth, ten, and hundred.

2. A trip from New York City to Seattle is 2,852.1 miles. A family wants to make the drive in 10 days, driving the same number of miles each day. About how many miles will they drive each day? Round your answer to the nearest tenth of a mile.

3. A decimal number has two digits to the right of its decimal point. If we round it to the nearest tenth, the result is 18.6.

    a. What is the maximum possible value of this number? Use words and the number line to explain your reasoning. Include the midpoint on your number line.

18.7 (1870 hundredths)

18.6

    b. What is the minimum possible value of this decimal? Use words, pictures, or numbers to explain your reasoning.

18.6

18.5

Answer Key

1. a. 43.6; 43.59; 44

   b. 243.9; 243.88; 240; 200

2. 285.2 miles

3. a. 18.64; explanations will vary.

   b. 18.55; explanations will vary.