Name _____   Date_____

1. Express the missing divisor using a power of 10. Explain your reasoning using a place value model.

   a. $3.6 \div$ _____ $= 0.036$ b. $5.320 \div$ _____ $= 5.32$

2. Estimate the quotient by rounding the expression to relate to a one-digit fact. Explain your thinking in the space below.

   a. $642 \div 83 =$ _____   b. $2{,}905 \div 678 =$ _____

3. Generate and solve another division problem with the same quotient and remainder as the two problems below. Explain your strategy for creating the new problem.

$$
\begin{array}{r}
3 \\
1\ 6\ \overline{)\ 6\ \ 2} \\
-\ \underline{4\ \ 8} \\
1\ \ 4
\end{array}
\qquad
\begin{array}{r}
3 \\
4\ 4\ \overline{)\ 1\ \ 3\ \ 8} \\
-\ \underline{1\ \ 3\ \ 2} \\
6
\end{array}
$$

4. Sarah says that 26 ÷ 6 equals 18 ÷ 4 because both are "4 R2." Show her mistake using decimal division.

5. A rectangular playground has an area of 5,692 square meters. If the width of the rectangle is 42 meters, find the length.

6. A baker uses 4.4 pounds of flour daily.

   a. How many ounces of flour will he use in two weeks? Use words, numbers, or pictures to explain your thinking. (1 lb = 16 oz)

b. The baker's recipe for a loaf of bread calls for 14 ounces of flour. If he uses all of his flour to make loaves of bread, how many full loaves can he bake in three weeks?

c. The baker sends all his bread to one store. If he can pack up to 14 loaves of bread in a box for shipping, what is the minimum number of boxes required to ship all the loaves baked in three weeks? Explain your reasoning.

d. The baker pays $0.75 per pound for sugar and $1.30 per pound for butter. Write an expression that shows how much the baker will spend if he buys 7 pounds of butter and 24 pounds of sugar.

e. Rainbow sprinkles cost as much per pound as sugar. Find $\frac{1}{10}$ the baker's total cost for 100 pounds of rainbow sprinkles. Explain the number of zeros and the placement of the decimal in your answer using a place value chart.