

Name \_\_\_\_\_

## Interpret the Remainder

Erin has 87 ounces of trail mix. She puts an equal number of ounces in each of 12 bags. How many ounces does she put in each bag?

$$\begin{array}{r} 7 \text{ r}3 \\ 12 \overline{)87} \\ \underline{-84} \\ 3 \end{array}$$

First, divide to find the quotient and remainder. Then, decide how to use the quotient and the remainder to answer the question.

- The dividend,  $\frac{87}{12}$ , represents the total number of ounces of trail mix.
- The divisor,  $\frac{12}{7}$ , represents the total number of bags.
- The quotient,  $\frac{7}{3}$ , represents the whole-number part of the number of ounces in each bag.
- The remainder,  $\frac{3}{12}$ , represents the number of ounces left over.

Divide the 3 ounces in the remainder by the divisor, 12, to write the

remainder as a fraction:  $\frac{3}{12}$

Write the fraction part in simplest form in your answer.

So, Erin puts  $7\frac{1}{4}$  ounces of trail mix in each bag.

### Interpret the remainder to solve.

1. Harry goes on a canoe trip with his scout troop. They will canoe a total of 75 miles and want to travel 8 miles each day. How many days will they need to travel the entire distance?  
\_\_\_\_\_
2. Hannah and her family want to hike 8 miles per day along a 125-mile-long trail. How many days will Hannah and her family hike exactly 8 miles?  
\_\_\_\_\_

3. There are 103 students eating lunch in the cafeteria. Each table seats 4 students. All the tables are full, except for one table. How many students are sitting at the table that is not full?  
\_\_\_\_\_
4. Emily buys 240 square feet of carpet. She can convert square feet to square yards by dividing the number of square feet by 9. How many square yards of carpet did Emily buy? (Hint: Write the remainder as a fraction.)  
\_\_\_\_\_