## Lesson 8.1

Name $\qquad$

## Divide Fractions and Whole Numbers

## Divide and check the quotient.

1. 

| 1 |  |  | 1 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\frac{1}{3}$ | $\frac{1}{3}$ | $\frac{1}{3}$ | $\frac{1}{3}$ | $\frac{1}{3}$ | $\frac{1}{3}$ |

$$
2 \div \frac{1}{3}=\underline{6} \text { because } \quad 6 \times \frac{1}{3}=2
$$

2. 



$$
2 \div \frac{1}{4}=\underline{8} \text { because } \quad 8 \frac{1}{4}=2
$$

Divide. Draw a number line or use fraction strips.
4. $1 \div \frac{1}{5}=5$
5. $\frac{1}{6} \div 3=\underline{\frac{1}{18}}$
7. $3 \div \frac{1}{3}=\underline{9}$
8. $\frac{1}{4} \div 6=\underline{\frac{1}{24}}$

## Problem Solving

10. Amy can run $\frac{1}{10}$ mile per minute. How many minutes will it take Amy to run 3 miles?
$\frac{1}{4} \div 2=\frac{\frac{1}{8}}{}$ because $\frac{\frac{1}{8}}{6} \times$
11. $4 \div \frac{1}{6}=24$
12. $5 \div \frac{1}{4}=20$
13. 



## 30 minutes

11. Jeremy has 3 yards of ribbon to use for wrapping gifts. He cuts the ribbon into pieces that are $\frac{1}{4}$ yard long. How many pieces of ribbon does Jeremy have?

12 pieces

## Lesson Check (5.Ne:7a, 5.N.:7b)

1. Kaley cuts half of a loaf of bread into 4 equal parts. What fraction of the whole loaf does each of the 4 parts represent?

## $\frac{1}{8}$

$\qquad$

## Spiral Review (5.Nf.1, 5.Nf.4a, 5.Nf.6)

3. A recipe for chicken and rice calls for $3 \frac{1}{2}$ pounds of chicken. Lisa wants to adjust the recipe so that it yields $1 \frac{1}{2}$ times as much chicken and rice. How much chicken will she need?

## $5 \frac{1}{4}$ pounds

5. In gym class, you run $\frac{3}{5}$ mile. Your coach runs 10 times that distance each day. How far does your coach run each day?
6. Tim and Sue share a small pizza. Tim eats $\frac{2}{3}$ of the pizza. Sue eats half as much of the pizza as Tim does. What fraction of the pizza does Sue eat?
7. Sterling plants a tree that is $4 \frac{3}{4}$ feet tall. One year later, the tree is $5 \frac{2}{5}$ feet tall. How many feet did the tree grow?

## 6 miles

2. When you divide a fraction less than 1 by a whole number greater than 1 , is the quotient less than, greater than, or equal to the dividend?

## The quotient is less than the dividend.

