

Name \_\_\_\_\_

**Divide Mixed Numbers****COMMON CORE STANDARD** CC.6.NS.1

Apply and extend previous understandings of multiplication and division to divide fractions by fractions.

Estimate. Then write the quotient in simplest form.

1.  $2\frac{1}{2} \div 2\frac{1}{3}$

2.  $2\frac{2}{3} \div 1\frac{1}{3}$

3.  $2 \div 3\frac{5}{8}$

Estimate:  $2 \div 2 = 1$ 

$$2\frac{1}{2} \div 2\frac{1}{3} = \frac{5}{2} \div \frac{7}{3}$$

$$= \frac{5}{2} \times \frac{3}{7}$$

$$= \frac{15}{14} \text{ or } 1\frac{1}{14}$$

4.  $1\frac{13}{15} \div 1\frac{2}{5}$

5.  $10 \div 6\frac{2}{3}$

6.  $2\frac{3}{5} \div 1\frac{1}{25}$

7.  $2\frac{1}{5} \div 2$

8. Sid and Jill hiked  $4\frac{1}{8}$  miles in the morning and  $1\frac{7}{8}$  miles in the afternoon. How many times as far did they hike in the morning as in the afternoon?

9. Kim has  $2\frac{1}{2}$  cups of peaches. How many  $\frac{1}{4}$ -cup servings can she make?

**Problem Solving** 

10. It takes Nim  $2\frac{2}{3}$  hours to weave a basket. He worked Monday through Friday, 8 hours a day. How many baskets did he make?

11. A tree grows  $1\frac{3}{4}$  feet per year. How long will it take the tree to grow from a height of  $21\frac{1}{4}$  feet to a height of 37 feet?