Name _____

Divide Mixed Numbers

COMMON CORE STANDARD—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. $2\frac{1}{2} \div 2\frac{1}{3}$

Estimate: 2 ÷ 2 = 1

$$2\frac{1}{2} \div 2\frac{1}{3} = \frac{5}{2} \div \frac{7}{3}$$
$$= \frac{5}{2} \times \frac{3}{7}$$
$$= \frac{15}{15} \text{ or } 1\frac{1}{14}$$

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

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

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 Real World

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?