

## LESSON

5-9

## Practice B

## Dividing Fractions and Mixed Numbers

Find the reciprocal.

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

\_\_\_\_\_

2.  $\frac{9}{8}$

\_\_\_\_\_

3.  $\frac{3}{5}$

\_\_\_\_\_

4.  $\frac{1}{10}$

\_\_\_\_\_

5.  $\frac{4}{9}$

\_\_\_\_\_

6.  $\frac{13}{14}$

\_\_\_\_\_

7.  $1\frac{1}{3}$

\_\_\_\_\_

8.  $2\frac{4}{5}$

\_\_\_\_\_

9.  $3\frac{1}{6}$

\_\_\_\_\_

Divide. Write each answer in simplest form.

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

\_\_\_\_\_

11.  $2\frac{3}{4} \div 1\frac{4}{7}$

\_\_\_\_\_

12.  $\frac{7}{8} \div \frac{2}{3}$

\_\_\_\_\_

13.  $3\frac{1}{4} \div 2\frac{3}{4}$

\_\_\_\_\_

14.  $\frac{9}{10} \div 3$

\_\_\_\_\_

15.  $\frac{3}{4} \div 9$

\_\_\_\_\_

16.  $2\frac{6}{9} \div \frac{6}{7}$

\_\_\_\_\_

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

\_\_\_\_\_

18.  $2\frac{1}{8} \div 3\frac{1}{4}$

\_\_\_\_\_

19. The rope in the school gymnasium is  $10\frac{1}{2}$  feet long. To make it easier to climb, the gym teacher tied a knot in the rope every  $\frac{3}{4}$  foot. How many knots are in the rope? \_\_\_\_\_

20. Mr. Fulton bought  $12\frac{1}{2}$  pounds of ground beef for the cookout. He plans on using  $\frac{1}{4}$  pound of beef for each hamburger. How many hamburgers can he make? \_\_\_\_\_

21. Mrs. Marks has  $9\frac{1}{4}$  ounces of fertilizer for her plants. She plans on using  $\frac{3}{4}$  ounce of fertilizer for each plant. How many plants can she fertilize? \_\_\_\_\_

**LESSON**  
**5-9**

**Problem Solving**

**Dividing Fractions and Mixed Numbers**

Write the correct answer in simplest form.

- |   |   |
|---|---|
| <p>1. Horses are measured in units called <i>hands</i>. One inch equals <math>\frac{1}{4}</math> hand. The average Clydesdale horse is <math>17\frac{1}{5}</math> hands high. What is the horse's height in inches? in feet?</p> <p>_____</p> | <p>2. Cloth manufacturers use a unit of measurement called a <i>finger</i>. One finger is equal to <math>4\frac{1}{2}</math> inches. If 25 inches are cut off a bolt of cloth, how many fingers of cloth were cut?</p> <p>_____</p> |
| <p>3. People in England measure weights in units called <i>stones</i>. One pound equals <math>\frac{1}{14}</math> of a stone. If a cat weighs <math>\frac{3}{4}</math> stone, how many pounds does it weigh?</p> <p>_____</p>                 | <p>4. The hiking trail is <math>\frac{9}{10}</math> mile long. There are 6 markers evenly posted along the trail to direct hikers. How far apart are the markers placed?</p> <p>_____</p>   |

Choose the letter for the best answer.

- |   |   |
|---|---|
| <p>5. A cake recipe calls for <math>1\frac{1}{2}</math> cups of butter. One tablespoon equals <math>\frac{1}{16}</math> cup. How many tablespoons of butter do you need to make the cake?</p> <p>A 24 tablespoons<br/>B 8 tablespoons<br/>C <math>\frac{3}{32}</math> tablespoon<br/>D 9 tablespoons</p>    | <p>6. Printed letters are measured in units called <i>points</i>. One point equals <math>\frac{1}{72}</math> inch. If you want the title of a paper you are typing on a computer to be <math>\frac{1}{2}</math> inch tall, what type point size should you use?</p> <p>F 144 point            H <math>\frac{1}{36}</math> point<br/>G 36 point             J <math>\frac{1}{144}</math> point</p> |
| <p>7. Phyllis bought 14 yards of material to make chair cushions. She cut the material into pieces <math>1\frac{3}{4}</math> yards long to make each cushion. How many cushions did Phyllis make?</p> <p>A 4 cushions        C 8 cushions<br/>B 6 cushions        D <math>24\frac{1}{2}</math> cushions</p> | <p>8. Dry goods are sold in units called <i>pecks</i> and <i>bushels</i>. One peck equals <math>\frac{1}{4}</math> bushel. If Peter picks <math>5\frac{1}{2}</math> bushels of peppers, how many pecks of peppers did Peter pick?</p> <p>F <math>1\frac{3}{8}</math> pecks            H 20 pecks<br/>G 11 pecks            J 22 pecks</p>   |