

Lesson 5.6T ~ Multiplying and Dividing Fractions and Whole Numbers

Name _____ Period _____ Date _____

Write each whole number as an improper fraction.

1. $24 = \frac{\quad}{1}$

2. $15 = \frac{\quad}{1}$

Find each product.

3. To find $\frac{1}{5} \times 25$:

a. Write the whole number as an improper fraction: $\frac{\quad}{1}$

b. Rewrite and solve the expression. Replace the whole number with the improper fraction from **part a**.

$$\frac{1}{5} \times \frac{\quad}{1} = \boxed{\quad}$$

c. Is the answer in simplest form? _____ If not, simplify. _____

4. $\frac{2}{3} \times 15 =$

5. $\frac{1}{7} \times 28 =$

6. $\frac{2}{5} \times 12 =$

7. $\frac{2}{3} \times 14 =$

8. Trent swam $\frac{3}{4}$ of the 15 laps necessary for his warm-up in practice. How many laps did Trent swim?

Find each quotient.

9. To find $3 \div \frac{3}{5}$:

a. Write the whole number as an improper fraction: $\frac{\quad}{1}$

b. Rewrite the expression. Replace the whole number with the improper fraction from **part a**.

$$\boxed{\quad} \div \frac{3}{5} =$$

c. What is the reciprocal of the second fraction? The reciprocal of $\frac{3}{5}$ is $\boxed{\quad}$.

d. Multiply by the reciprocal. $\boxed{\quad} \times \boxed{\quad} = \boxed{\quad}$

e. Is the answer a mixed number in simplest form? _____ If not, simplify. $\boxed{\quad}$

10. $12 \div \frac{1}{2} =$

11. $6 \div \frac{3}{5} =$

12. $7 \div \frac{3}{4} =$

13. $5 \div \frac{2}{3} =$

14. Mary bought 4 pies. She cut them into enough slices so each slice was $\frac{1}{6}$ of a pie. How many slices of pie could she serve?