Lesson 5.7T ~ Multiplying and Dividing Mixed Numbers

Name_____   Period_____   Date_____

Write each whole or mixed number as an improper fraction.

1. $12 =$ □

2. $5\frac{1}{2} =$ □

Find each product. Write your answer in simplest form.

3. To find $2\frac{1}{2} \times 3$:

    a. Rename both numbers as improper fractions. $2\frac{1}{2} =$ □ $3 =$ □

    b. Multiply using both numbers from **part a**.   □ $\times$ □ $=$ □

    c. Rewrite the answer as a mixed number in simplest form.

$$2\frac{1}{2} \times 3 =$$

4. $2\frac{1}{3} \times 4 =$

5. $2 \times 2\frac{1}{4} =$

6. $1\frac{1}{2} \times 1\frac{1}{9} =$

7. $2\frac{1}{3} \times 3\frac{1}{2} =$

8. Joy's family ate $1\frac{2}{3}$ boxes of crackers this month. If the family ate this amount for the 12 months of the year, how many boxes of crackers would they eat by the end of the year?

Find each quotient. Write your answer in simplest form.

9. To find $2\frac{3}{4} \div 1\frac{1}{2}$:

    a. Rename both numbers as improper fractions, if necessary. $2\frac{3}{4} =$ ☐ $1\frac{1}{2} =$ ☐

    b. Rewrite the expression using both numbers from **part a**.   ☐ $\div$ ☐

    c. Find the reciprocal of the second fraction in the expression from **part b**.   ☐

    d. Multiply using the reciprocal.   ☐ $\times$ ☐ $=$ ☐

    e. Rewrite the answer as a mixed number in simplest form.

$$2\frac{3}{4} \div 1\frac{1}{2} =$$

10. $6 \div 2\frac{1}{4} =$

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

12. $1\frac{5}{6} \div 1\frac{1}{3} =$

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

14. Brandon set out a line of bricks. Each brick was $3\frac{1}{4}$ inches long. The line of bricks measured $32\frac{1}{2}$ inches in length. How many bricks did he use?