Lesson 5.4T ~ Dividing Fractions

Name_____ Period_____ Date_____

Find each quotient. Write your answer in simplest form.

1. For $\dfrac{3}{4} \div \dfrac{1}{3}$:

    a. Find the reciprocal of the second fraction. The reciprocal of $\dfrac{1}{3}$ is ___ .

    b. Rewrite the expression into a multiplication expression. Use the reciprocal from **part a** for the second fraction. $\dfrac{3}{4} \times$ ___

    c. Multiply the fractions in **part b**.

                       Answer: ☐

    d. Rewrite the improper fraction as a mixed number in simplest form. ☐

2. $\dfrac{1}{4} \div \dfrac{1}{8} =$

3. $\dfrac{4}{5} \div \dfrac{1}{5} =$

4. $\dfrac{1}{4} \div \dfrac{1}{3} =$

5. $\dfrac{1}{6} \div \dfrac{2}{5} =$

6. $\dfrac{2}{3} \div \dfrac{1}{6} =$

7. $\dfrac{5}{12} \div \dfrac{5}{6} =$

Solve each problem. Show your work.

8. Trevin has a project that requires $\frac{1}{4}$ inch thick boards. He has a board that is $\frac{5}{12}$ inch thick. Into how many $\frac{1}{4}$ inch thick boards can he cut his $\frac{5}{12}$ inch thick board?

9. Megan has $\frac{5}{8}$ cup of brown sugar. Her recipe calls for $\frac{1}{4}$ cup of brown sugar. How many batches can she make?