Name _____

Practice
9-3

Dividing Fractions

Find each quotient. Simplify if possible.

1. $\frac{1}{3} \div \frac{5}{6} =$ _____ **2.** $\frac{3}{8} \div \frac{1}{2} =$ _____ **3.** $\frac{7}{8} \div \frac{7}{12} =$ _____

4. $\frac{5}{9} \div 5 =$ _____ **5.** $\frac{6}{7} \div \frac{3}{4} =$ _____ **6.** $\frac{2}{3} \div \frac{3}{4} =$ _____

7. $\frac{1}{2} \div \frac{3}{10} =$ _____ **8.** $\frac{5}{12} \div \frac{2}{3} =$ _____ **9.** $\frac{14}{15} \div \frac{2}{5} =$ _____

10. $\frac{1}{3} \div \frac{3}{4} =$ _____ **11.** $\frac{3}{8} \div 4 =$ _____ **12.** $\frac{9}{10} \div \frac{3}{5} =$ _____

13. Writing to Explain Serena said that by looking for common factors and simplifying the expression, she found that $\frac{4}{10} \div \frac{5}{8} = 1\frac{9}{16}$. Do you agree with Serena? Why or why not?

$$\frac{\overset{5}{\cancel{10}}}{4} \times \frac{5}{\underset{4}{\cancel{8}}} = \frac{25}{16} = 1\frac{9}{16}$$

14. A $\frac{5}{6}$-yard piece of fencing is made of boards that are $\frac{1}{12}$ yard wide. How many boards make up the fence?

15. Nathan has $\frac{7}{8}$ lb of hummus. How many $\frac{3}{10}$-lb servings does he have?

16. Algebra Which equation can you use to find the number of $\frac{1}{4}$–inch pieces that can be cut from a piece of metal $\frac{5}{8}$ of an inch long?

A $\frac{5}{8} \div \frac{1}{4} = n$

B $\frac{1}{4} \div \frac{5}{8} = n$

C $\frac{5}{8} \times \frac{1}{4} = n$

D $\frac{1}{4} \times \frac{8}{5} = n$

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