Using an Algorithm to Multiply Fractions

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NAME DATE TIME

SRB 197–198, 202–203

A Fraction Multiplication Algorithm

To multiply two fractions, multiply the numerators and multiply the denominators.

For example: $\frac{2}{3} * \frac{3}{8} = \frac{(2 * 3)}{(3 * 8)} = \frac{6}{24}$

For Problems 1–6, use the algorithm to multiply the fractions.

1. $\frac{1}{3} * \frac{1}{2} =$ ____
2. $\frac{2}{4} * \frac{2}{3} =$ ____
3. $\frac{4}{5} * \frac{2}{5} =$ ____
4. $\frac{2}{10} * \frac{2}{3} =$ ____
5. $\frac{2}{8} * \frac{5}{6} =$ ____
6. $\frac{5}{12} * \frac{2}{7} =$ ____

7. If you multiply $\frac{2}{3} * \frac{6}{10}$, will the product be more than $\frac{2}{3}$ or less than $\frac{2}{3}$? How do you know?

8. If you multiply $\frac{2}{3} * \frac{6}{10}$, will the product be more than $\frac{6}{10}$ or less than $\frac{6}{10}$? How do you know?

In Problems 9–12, write true or false. Do not multiply.

9. $\frac{3}{4} * \frac{7}{10}$ is less than $\frac{3}{4}$. _____
10. $\frac{7}{9} * \frac{11}{12}$ is greater than $\frac{11}{12}$. _____
11. $\frac{4}{5} * \frac{2}{8}$ is greater than $\frac{2}{8}$ but less than $\frac{4}{5}$. _____
12. $\frac{6}{7} * \frac{1}{4}$ is less than $\frac{6}{7}$ and less than $\frac{1}{4}$. _____

Practice

13. $\frac{2}{3} + \frac{1}{6} =$ _____
14. $\frac{3}{4} + \frac{3}{8} =$ _____
15. $\frac{2}{5} + \frac{1}{4} =$ _____