

NAME: \_\_\_\_\_

**Study guide for Multiplication and Division of Fractions and Distributive Property.**

1. Find the product.  $8 \times \frac{4}{5} =$

2. Write the product in simplest form for  $\frac{4}{9} \cdot \frac{4}{8} =$

3. Multiply and write the product in simplest form for  $3\frac{5}{6} \cdot 1\frac{4}{5} =$

4. What is the quotient for  $\frac{2}{10} \div \frac{1}{5} =$

5. Find the quotient in simplest terms for  $6 \div \frac{6}{7} =$

6. Divide  $4\frac{2}{16} \div 3\frac{1}{8}$  and write your answer in simplest form.

7. Find the quotient in simplest terms for  $\frac{4}{20} \div 5 =$

8. Draw a model for the equation  $\frac{1}{2} \times \frac{3}{4} =$

9. Draw a model for  $4 \div \frac{1}{3} =$

10. The number 96 can be expressed as the sum of  $90+6$ . Show how to use the distributive property to rewrite that sum as a multiple whose addends have only a common factor of 1.

11. Which expression does NOT have the same value as  $4(6+25)$ ?

a.  $4 \cdot 31$

b.  $(4 \cdot 6) + (4 \cdot 25)$

c.  $4 \cdot 6 + 25$

d.  $24 + (4 \cdot 25)$

12. Noah has  $\frac{4}{5}$  of a cup of powdered sugar. He sprinkles  $\frac{1}{3}$  of the sugar onto a plate of brownies and sprinkles the rest onto a plate of lemon cookies. How much sugar does Noah sprinkle on the brownies?

13.

6. Each batch of popcorn takes  $\frac{1}{4}$  of a pound of butter. How many batches can be made from  $2\frac{1}{4}$  pounds of butter?

