

Name _____

Multiplying and Dividing Fractions 1

Directions: Solve. Reduce each answer to its lowest terms, but it is not necessary to change improper fractions to mixed numbers. Show your work.

1. $\frac{50}{27} \cdot \frac{45}{20} =$ _____

6. $3\frac{5}{9} \div \frac{32}{9} =$ _____

2. $\frac{11}{24} \cdot \frac{16}{33} =$ _____

7. $\frac{12n}{hk} \cdot \frac{kmp}{15n} =$ _____

3. $3\frac{3}{8} \cdot 2\frac{5}{9} =$ _____

8. $\frac{72kp}{az} \div \frac{10mk}{zd} =$ _____

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

9. $\frac{abc}{def} \cdot \frac{djl}{bop} =$ _____

5. $\frac{32}{45} \cdot \frac{18}{42} =$ _____

10. $\frac{54pd}{25qr} \div \frac{64ps}{30rt} =$ _____

Directions: Evaluate the expressions for the following values:

$\frac{8xy}{3mn} \cdot \frac{15m}{4y}$

$\frac{8xy}{3mn} \div \frac{12x}{9y}$

11. $x = 5, y = 6, m = 10, \text{ and } n = 1$

12. $x = 15, y = 2, m = 3, \text{ and } n = 4$

13. $x = 2, y = 1, m = 8, \text{ and } n = 3$

Directions: Translate as a mathematical statement and then solve.

14. A.J. and Sherita are filling bottles with lemonade to sell at their school track meet. Each bottle holds $5\frac{1}{6}$ ounces of lemonade. A.J. has 120 bottles. How many ounces of lemonade does he need? _____