

Multiply – Solutions

Find each product. Simplify Answers.

$$1. \frac{5}{6} \cdot \frac{1}{3} = \boxed{\frac{5}{18}}$$

$$2. \left(\frac{3}{8}\right)\left(\frac{5}{7}\right) = \boxed{\frac{15}{56}}$$

$$3. \frac{1}{11} \left(\frac{5}{1}\right) = \boxed{\frac{5}{11}}$$

$$4. \frac{1}{14} \cdot \frac{7}{10^2} = \frac{1}{14_2} \cdot \frac{7^1}{2} = \frac{1}{2} \cdot \frac{1}{2} = \boxed{\frac{1}{4}}$$

$$5. \frac{5}{22} \cdot \frac{11}{12_4} = \frac{5}{22_2} \cdot \frac{11}{4} = \frac{5}{2} \cdot \frac{1}{4} = \boxed{\frac{5}{8}}$$

$$6. \frac{2}{5} \cdot \frac{1}{11} \cdot \frac{44}{70_7} = \frac{2}{5} \cdot \frac{1}{11} \cdot \frac{44}{7} = \frac{2}{5} \cdot \frac{4}{7} = \boxed{\frac{8}{35}}$$

$$7. \frac{2}{4} \cdot \frac{3}{3} \cdot \frac{1}{4} = \frac{11}{4} \cdot \frac{1}{3} = \boxed{\frac{11}{12}}$$

x

$$8. \frac{4}{7} \cdot \frac{2}{1} \cdot \frac{5}{6} = \frac{5}{7} \cdot \frac{11}{1} = \frac{55}{7}$$

x x

$$\begin{array}{r} 7 \\ 7 \overline{) 55} \\ \underline{-49} \\ 6 \end{array} \quad \boxed{7\frac{6}{7}}$$

$$9. \quad 4 \cdot 3 + \frac{1}{8} = \frac{\cancel{4}^1}{1} \cdot \frac{25}{\cancel{8}_2} = \frac{25}{2} \text{ reduced, improper}$$

$$\begin{array}{r} 12 \\ 2 \overline{) 25} \\ \underline{2} \\ 05 \\ \underline{04} \\ 1 \end{array} \quad \boxed{12\frac{1}{2}}$$

$$10. \quad \frac{4}{5} \cdot 2 + \frac{3}{6} \cdot 1 + \frac{1}{8} =$$

$$\frac{\cancel{4}^1}{5} \cdot \frac{15}{\cancel{6}_2} \cdot \frac{9}{\cancel{3}_1} = \frac{1}{5} \cdot \frac{\cancel{15}^3}{6} \cdot \frac{9}{2} = \frac{1}{5} \cdot \frac{3}{2} \cdot \frac{\cancel{9}^3}{2} = \frac{9}{4}$$

Reduced, improper

$$\begin{array}{r} 2 \\ 4 \overline{) 9} \\ \underline{-8} \\ 1 \end{array} \quad \boxed{2\frac{1}{4}}$$