

Divide – Solutions

$$1. \frac{5}{7} = \boxed{\frac{7}{5}}$$

$$2. \frac{9}{2} = \boxed{\frac{2}{9}}$$

$$3. \frac{1}{12} = \boxed{12}$$

$$4. \begin{array}{r} 3 + \frac{2}{5} = \frac{17}{5} \\ \quad \uparrow \\ \quad \times \end{array}$$

$$\boxed{\frac{5}{17}}$$

$$5. \frac{4}{5} \div \frac{7}{8} =$$

$$\frac{4}{5} \cdot \frac{8}{7} = \boxed{\frac{32}{35}}$$

$$6. \frac{5}{9} \div \frac{10}{11} =$$

$$\frac{5}{9} \cdot \frac{11}{10} = \frac{5 \cancel{11}^1}{9} \cdot \frac{11}{\cancel{10}_2} = \boxed{\frac{11}{18}}$$

$$7. \frac{12}{15} \div \frac{8}{9} =$$

$$\frac{12}{15} \cdot \frac{8}{9} = \frac{3 \cancel{12}^3}{15} \cdot \frac{8}{\cancel{9}_3} = \frac{3}{\cancel{15}_5} \cdot \frac{8}{2} = \boxed{\frac{9}{10}}$$

$$8. \frac{16}{1} \div \frac{1}{2} =$$

$$\frac{16}{1} \cdot \frac{2}{1} = \frac{32}{1} = \boxed{32}$$

9.

$$4 \overline{) \frac{2}{3}} \div 7 = \frac{14}{3} \div \frac{7}{1}$$

$$\frac{14}{3} \cdot \frac{1}{7} = \frac{\cancel{14}^2}{3} \cdot \frac{1}{\cancel{7}_1} = \boxed{\frac{2}{3}} \text{ reduced proper}$$

10. $2 \overline{) \frac{2}{3}} \div 1 \overline{) \frac{1}{7}} =$

$$\frac{8}{3} \div \frac{8}{7} =$$

$$\frac{8}{3} \cdot \frac{7}{8} = \frac{\cancel{8}^1}{3} \cdot \frac{7}{\cancel{8}_1} = \frac{7}{3} \text{ reduced, improper}$$

$$\begin{array}{r} 2 \\ 3 \overline{) 7} \\ \underline{-6} \\ 1 \end{array} \quad \boxed{2 \frac{1}{3}}$$