

Order of Operations with Fractions (A)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\left(\frac{1}{8} \times \frac{2}{3}\right) \div \frac{1}{3} + \left(\frac{4}{5}\right)^2$$

$$\left(\frac{2}{3}\right)^2 \div \left(\frac{1}{4} + \frac{1}{9}\right) \times \frac{1}{5}$$

$$\left(\frac{1}{4} + \frac{1}{2}\right)^3 \div \left(\frac{5}{6} \times \frac{3}{8}\right)$$

$$\left(\frac{4}{9}\right)^2 \div \left(\frac{1}{3} + \frac{2}{9} - \frac{1}{2}\right)$$

Order of Operations with Fractions (A)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & \left(\frac{1}{8} \times \frac{2}{3} \right) \div \frac{1}{3} + \left(\frac{4}{5} \right)^2 \\ &= \frac{1}{12} \div \frac{1}{3} + \left(\frac{4}{5} \right)^2 \\ &= \frac{1}{12} \div \frac{1}{3} + \frac{16}{25} \\ &= \frac{1}{4} + \frac{16}{25} \\ &= \frac{89}{100} \end{aligned}$$

$$\begin{aligned} & \left(\frac{2}{3} \right)^2 \div \left(\frac{1}{4} + \frac{1}{9} \right) \times \frac{1}{5} \\ &= \left(\frac{2}{3} \right)^2 \div \frac{13}{36} \times \frac{1}{5} \\ &= \frac{4}{9} \div \frac{13}{36} \times \frac{1}{5} \\ &= \frac{16}{13} \times \frac{1}{5} \\ &= \frac{16}{65} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{4} + \frac{1}{2} \right)^3 \div \left(\frac{5}{6} \times \frac{3}{8} \right) \\ &= \left(\frac{3}{4} \right)^3 \div \left(\frac{5}{6} \times \frac{3}{8} \right) \\ &= \left(\frac{3}{4} \right)^3 \div \frac{5}{16} \\ &= \frac{27}{64} \div \frac{5}{16} \\ &= \frac{27}{20} \\ &= 1\frac{7}{20} \end{aligned}$$

$$\begin{aligned} & \left(\frac{4}{9} \right)^2 \div \left(\frac{1}{3} + \frac{2}{9} - \frac{1}{2} \right) \\ &= \left(\frac{4}{9} \right)^2 \div \left(\frac{5}{9} - \frac{1}{2} \right) \\ &= \left(\frac{4}{9} \right)^2 \div \frac{1}{18} \\ &= \frac{16}{81} \div \frac{1}{18} \\ &= \frac{32}{9} \\ &= 3\frac{5}{9} \end{aligned}$$