

# Order of Operations with Fractions (A)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

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

$$\left(\frac{5}{6}\right)^2 \div \left(\frac{5}{8} - \frac{4}{9}\right)$$

$$\frac{1}{9} \times \frac{5}{8} + \left(\frac{1}{2}\right)^3$$

$$\frac{7}{8} \div \left(\frac{2}{3} - \left(\frac{1}{3}\right)^2\right)$$

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

$$\left(\frac{5}{6} - \left(\frac{1}{3}\right)^2\right) \times \frac{1}{2}$$

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

$$\left(\frac{1}{9}\right)^2 \div \frac{4}{9} + \frac{1}{6}$$

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

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Simplify each expression using the correct order of operations.

$$\begin{aligned} \frac{5}{6} + \frac{3}{4} \div \left(\frac{3}{5}\right)^2 \\ = \frac{5}{6} + \frac{3}{4} \div \frac{9}{25} \\ = \frac{5}{6} + \frac{25}{12} \\ = \frac{35}{12} \\ = 2\frac{11}{12} \end{aligned}$$

$$\begin{aligned} \left(\frac{5}{6}\right)^2 \div \left(\frac{5}{8} - \frac{4}{9}\right) \\ = \left(\frac{5}{6}\right)^2 \div \frac{13}{72} \\ = \frac{25}{36} \div \frac{13}{72} \\ = \frac{50}{13} \\ = 3\frac{11}{13} \end{aligned}$$

$$\begin{aligned} \frac{1}{9} \times \frac{5}{8} + \left(\frac{1}{2}\right)^3 \\ = \frac{1}{9} \times \frac{5}{8} + \frac{1}{8} \\ = \frac{5}{72} + \frac{1}{8} \\ = \frac{7}{36} \end{aligned}$$

$$\begin{aligned} \frac{7}{8} \div \left(\frac{2}{3} - \left(\frac{1}{3}\right)^2\right) \\ = \frac{7}{8} \div \left(\frac{2}{3} - \frac{1}{9}\right) \\ = \frac{7}{8} \div \frac{5}{9} \\ = \frac{63}{40} \\ = 1\frac{23}{40} \end{aligned}$$

$$\begin{aligned} \left(\frac{3}{5} + \frac{2}{5}\right) \times \left(\frac{1}{9}\right)^2 \\ = 1 \times \left(\frac{1}{9}\right)^2 \\ = 1 \times \frac{1}{81} \\ = \frac{1}{81} \end{aligned}$$

$$\begin{aligned} \left(\frac{5}{6} - \left(\frac{1}{3}\right)^2\right) \times \frac{1}{2} \\ = \left(\frac{5}{6} - \frac{1}{9}\right) \times \frac{1}{2} \\ = \frac{13}{18} \times \frac{1}{2} \\ = \frac{13}{36} \end{aligned}$$

$$\begin{aligned} \frac{3}{4} - \frac{1}{6} \div \left(\frac{4}{5}\right)^2 \\ = \frac{3}{4} - \frac{1}{6} \div \frac{16}{25} \\ = \frac{3}{4} - \frac{25}{96} \\ = \frac{47}{96} \end{aligned}$$

$$\begin{aligned} \left(\frac{1}{9}\right)^2 \div \frac{4}{9} + \frac{1}{6} \\ = \frac{1}{81} \div \frac{4}{9} + \frac{1}{6} \\ = \frac{1}{36} + \frac{1}{6} \\ = \frac{7}{36} \end{aligned}$$

$$\begin{aligned} \left(\frac{3}{4}\right)^2 \times \frac{3}{5} + \frac{1}{2} \\ = \frac{9}{16} \times \frac{3}{5} + \frac{1}{2} \\ = \frac{27}{80} + \frac{1}{2} \\ = \frac{67}{80} \end{aligned}$$