

# Order of Operations with Fractions (I)

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

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

Simplify each expression using the correct order of operations.

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

$$\left(\frac{3}{4} + \frac{4}{5}\right) \div \frac{1}{5}$$

$$\frac{1}{3} \div \frac{5}{8} + \frac{1}{5}$$

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

$$\frac{1}{2} \times \frac{2}{3} + \frac{5}{8}$$

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

$$\frac{5}{8} \div \left(\frac{1}{4} - \frac{1}{6}\right)$$

$$\frac{3}{4} \div \frac{1}{3} + \frac{2}{5}$$

$$\frac{1}{9} \div \frac{2}{9} + \frac{1}{6}$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left( \frac{1}{5} + \frac{8}{9} \right) \times \frac{5}{8} \\ &= \frac{49}{45} \times \frac{5}{8} \\ &= \frac{49}{72} \end{aligned}$$

$$\begin{aligned} & \left( \frac{3}{4} + \frac{4}{5} \right) \div \frac{1}{5} \\ &= \frac{31}{20} \div \frac{1}{5} \\ &= \frac{31}{4} \\ &= 7\frac{3}{4} \end{aligned}$$

$$\begin{aligned} & \frac{1}{3} \div \frac{5}{8} + \frac{1}{5} \\ &= \frac{8}{15} + \frac{1}{5} \\ &= \frac{11}{15} \end{aligned}$$

$$\begin{aligned} & \left( \frac{3}{4} \right)^3 \times \frac{2}{3} \\ &= \frac{27}{64} \times \frac{2}{3} \\ &= \frac{9}{32} \end{aligned}$$

$$\begin{aligned} & \frac{1}{2} \times \frac{2}{3} + \frac{5}{8} \\ &= \frac{1}{3} + \frac{5}{8} \\ &= \frac{23}{24} \end{aligned}$$

$$\begin{aligned} & \frac{2}{3} + \left( \frac{5}{6} \right)^2 \\ &= \frac{2}{3} + \frac{25}{36} \\ &= \frac{49}{36} \\ &= 1\frac{13}{36} \end{aligned}$$

$$\begin{aligned} & \frac{5}{8} \div \left( \frac{1}{4} - \frac{1}{6} \right) \\ &= \frac{5}{8} \div \frac{1}{12} \\ &= \frac{15}{2} \\ &= 7\frac{1}{2} \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \div \frac{1}{3} + \frac{2}{5} \\ &= \frac{9}{4} + \frac{2}{5} \\ &= \frac{53}{20} \\ &= 2\frac{13}{20} \end{aligned}$$

$$\begin{aligned} & \frac{1}{9} \div \frac{2}{9} + \frac{1}{6} \\ &= \frac{1}{2} + \frac{1}{6} \\ &= \frac{2}{3} \end{aligned}$$