

Order of Operations with Fractions (D)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

$$\frac{3}{4} \times \left(\frac{8}{9}\right)^2$$

$$\left(\frac{2}{5} + \frac{1}{4}\right) \div \frac{1}{2}$$

$$\frac{2}{3} \times \frac{7}{9} + \frac{5}{6}$$

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$$\begin{aligned} & \left(\frac{3}{4} + \frac{2}{3}\right) \times \frac{5}{8} \\ &= \frac{17}{12} \times \frac{5}{8} \\ &= \frac{85}{96} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{4}\right)^2 \times \frac{1}{5} \\ &= \frac{1}{16} \times \frac{1}{5} \\ &= \frac{1}{80} \end{aligned}$$

$$\begin{aligned} & \frac{1}{8} + \left(\frac{5}{8}\right)^2 \\ &= \frac{1}{8} + \frac{25}{64} \\ &= \frac{33}{64} \end{aligned}$$

$$\begin{aligned} & \frac{2}{3} + \frac{1}{4} \div \frac{1}{2} \\ &= \frac{2}{3} + \frac{1}{2} \\ &= \frac{7}{6} \\ &= 1\frac{1}{6} \end{aligned}$$

$$\begin{aligned} & \frac{1}{2} \times \left(\frac{1}{5}\right)^2 \\ &= \frac{1}{2} \times \frac{1}{25} \\ &= \frac{1}{50} \end{aligned}$$

$$\begin{aligned} & \frac{5}{6} \times \left(\frac{1}{6} + \frac{3}{4}\right) \\ &= \frac{5}{6} \times \frac{11}{12} \\ &= \frac{55}{72} \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \times \left(\frac{8}{9}\right)^2 \\ &= \frac{3}{4} \times \frac{64}{81} \\ &= \frac{16}{27} \end{aligned}$$

$$\begin{aligned} & \left(\frac{2}{5} + \frac{1}{4}\right) \div \frac{1}{2} \\ &= \frac{13}{20} \div \frac{1}{2} \\ &= \frac{13}{10} \\ &= 1\frac{3}{10} \end{aligned}$$

$$\begin{aligned} & \frac{2}{3} \times \frac{7}{9} + \frac{5}{6} \\ &= \frac{14}{27} + \frac{5}{6} \\ &= \frac{73}{54} \\ &= 1\frac{19}{54} \end{aligned}$$