

Priorité des Opérations sur les Fractions (E)

Nom: _____

Date: _____

Effectuez chaque expression à l'aide de l'ordre correct des opérations.

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

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

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

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

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

$$\frac{3}{8} - \left(\frac{1}{3}\right)^3 \div \frac{1}{9}$$

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

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

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

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$$\begin{aligned} & \left(\frac{2}{3} - \frac{1}{9}\right)^2 \times \frac{1}{5} \\ &= \left(\frac{5}{9}\right)^2 \times \frac{1}{5} \\ &= \frac{25}{81} \times \frac{1}{5} \\ &= \frac{5}{81} \end{aligned}$$

$$\begin{aligned} & \frac{8}{9} \times \left(\left(\frac{3}{4}\right)^2 + \frac{2}{3}\right) \\ &= \frac{8}{9} \times \left(\frac{9}{16} + \frac{2}{3}\right) \\ &= \frac{8}{9} \times \frac{59}{48} \\ &= \frac{59}{54} \\ &= 1\frac{5}{54} \end{aligned}$$

$$\begin{aligned} & \left(\frac{5}{9}\right)^2 \div \frac{8}{9} + \frac{1}{8} \\ &= \frac{25}{81} \div \frac{8}{9} + \frac{1}{8} \\ &= \frac{25}{72} + \frac{1}{8} \\ &= \frac{17}{36} \end{aligned}$$

$$\begin{aligned} & \frac{2}{9} \div \left(\frac{1}{2}\right)^3 - \frac{2}{5} \\ &= \frac{2}{9} \div \frac{1}{8} - \frac{2}{5} \\ &= \frac{16}{9} - \frac{2}{5} \\ &= \frac{62}{45} \\ &= 1\frac{17}{45} \end{aligned}$$

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

$$\begin{aligned} & \frac{3}{8} - \left(\frac{1}{3}\right)^3 \div \frac{1}{9} \\ &= \frac{3}{8} - \frac{1}{27} \div \frac{1}{9} \\ &= \frac{3}{8} - \frac{1}{3} \\ &= \frac{1}{24} \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \times \left(\frac{4}{5} - \left(\frac{3}{5}\right)^2\right) \\ &= \frac{3}{4} \times \left(\frac{4}{5} - \frac{9}{25}\right) \\ &= \frac{3}{4} \times \frac{11}{25} \\ &= \frac{33}{100} \end{aligned}$$

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

$$\begin{aligned} & \left(\frac{1}{2}\right)^3 \times \left(\frac{1}{9} + \frac{5}{9}\right) \\ &= \left(\frac{1}{2}\right)^3 \times \frac{2}{3} \\ &= \frac{1}{8} \times \frac{2}{3} \\ &= \frac{1}{12} \end{aligned}$$