

Priorité des Opérations sur les Fractions (A)

Nom: _____

Date: _____

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

$$\left(\frac{1}{4} \div \frac{1}{3}\right) \times \left(\frac{3}{8} + \frac{8}{9} - \left(\frac{5}{6}\right)^2\right)$$

$$\left(\frac{5}{9} - \frac{1}{9}\right) \div \left(\frac{5}{6}\right)^2 \times \frac{5}{8} + \frac{1}{6}$$

$$\left(\frac{8}{9} - \frac{5}{6}\right) \div \left(\frac{1}{2}\right)^3 \times \left(\frac{5}{8} + \frac{1}{6}\right)$$

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

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$$\begin{aligned} & \left(\frac{1}{4} \div \frac{1}{3} \right) \times \left(\frac{3}{8} + \frac{8}{9} - \left(\frac{5}{6} \right)^2 \right) \\ &= \frac{3}{4} \times \left(\frac{3}{8} + \frac{8}{9} - \frac{25}{36} \right) \\ &= \frac{3}{4} \times \left(\frac{3}{8} + \frac{8}{9} - \frac{25}{36} \right) \\ &= \frac{3}{4} \times \left(\frac{91}{72} - \frac{25}{36} \right) \\ &= \frac{3}{4} \times \frac{41}{72} \\ &= \frac{41}{96} \end{aligned}$$

$$\begin{aligned} & \left(\frac{5}{9} - \frac{1}{9} \right) \div \left(\frac{5}{6} \right)^2 \times \frac{5}{8} + \frac{1}{6} \\ &= \frac{4}{9} \div \frac{25}{36} \times \frac{5}{8} + \frac{1}{6} \\ &= \frac{4}{9} \div \frac{25}{36} \times \frac{5}{8} + \frac{1}{6} \\ &= \frac{16}{25} \times \frac{5}{8} + \frac{1}{6} \\ &= \frac{2}{5} + \frac{1}{6} \\ &= \frac{17}{30} \end{aligned}$$

$$\begin{aligned} & \left(\frac{8}{9} - \frac{5}{6} \right) \div \left(\frac{1}{2} \right)^3 \times \left(\frac{5}{8} + \frac{1}{6} \right) \\ &= \frac{1}{18} \div \left(\frac{1}{2} \right)^3 \times \left(\frac{5}{8} + \frac{1}{6} \right) \\ &= \frac{1}{18} \div \frac{1}{8} \times \frac{19}{24} \\ &= \frac{1}{18} \div \frac{1}{8} \times \frac{19}{24} \\ &= \frac{4}{9} \times \frac{19}{24} \\ &= \frac{19}{54} \end{aligned}$$

$$\begin{aligned} & \frac{1}{5} \times \frac{5}{6} \div \left(\frac{1}{6} + \left(\frac{3}{4} \right)^2 - \frac{1}{2} \right) \\ &= \frac{1}{5} \times \frac{5}{6} \div \left(\frac{1}{6} + \frac{9}{16} - \frac{1}{2} \right) \\ &= \frac{1}{5} \times \frac{5}{6} \div \left(\frac{35}{48} - \frac{1}{2} \right) \\ &= \frac{1}{5} \times \frac{5}{6} \div \frac{11}{48} \\ &= \frac{1}{6} \div \frac{11}{48} \\ &= \frac{8}{11} \end{aligned}$$