

Priorité des Opérations sur les Fractions (C)

Nom: _____

Date: _____

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

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

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

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

$$\left(\frac{1}{6} + \frac{8}{9} \div \frac{1}{3} - \frac{5}{6} \right)^3 \times \frac{1}{5} \div \frac{7}{9}$$

Priorité des Opérations sur les Fractions (C)

Nom: _____

Date: _____

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

$$\begin{aligned} & \frac{1}{5} + \frac{3}{8} \div \left(\left(\frac{2}{3} \right)^2 - \frac{1}{6} \right) \times \left(\frac{2}{9} + \frac{1}{9} \right) \\ &= \frac{1}{5} + \frac{3}{8} \div \left(\frac{4}{9} - \frac{1}{6} \right) \times \left(\frac{2}{9} + \frac{1}{9} \right) \\ &= \frac{1}{5} + \frac{3}{8} \div \frac{5}{18} \times \left(\frac{2}{9} + \frac{1}{9} \right) \\ &= \frac{1}{5} + \frac{3}{8} \div \frac{5}{18} \times \frac{1}{3} \\ &= \frac{1}{5} + \frac{27}{20} \times \frac{1}{3} \\ &= \frac{1}{5} + \frac{9}{20} \\ &= \frac{13}{20} \end{aligned}$$

$$\begin{aligned} & \left(\left(\frac{1}{3} \right)^2 \div \left(\frac{1}{6} \right)^2 + \frac{1}{2} \right) \times \frac{1}{4} - \frac{3}{5} \\ &= \left(\frac{1}{9} \div \left(\frac{1}{6} \right)^2 + \frac{1}{2} \right) \times \frac{1}{4} - \frac{3}{5} \\ &= \left(\frac{1}{9} \div \frac{1}{36} + \frac{1}{2} \right) \times \frac{1}{4} - \frac{3}{5} \\ &= \left(4 + \frac{1}{2} \right) \times \frac{1}{4} - \frac{3}{5} \\ &= \frac{9}{2} \times \frac{1}{4} - \frac{3}{5} \\ &= \frac{9}{8} - \frac{3}{5} \\ &= \frac{21}{40} \end{aligned}$$

$$\begin{aligned} & \left(\left(\frac{3}{4} \right)^2 \div \frac{1}{4} \right) \times \left(\frac{5}{6} - \frac{1}{2} + \left(\frac{1}{5} \right)^2 \right) \\ &= \left(\frac{9}{16} \div \frac{1}{4} \right) \times \left(\frac{5}{6} - \frac{1}{2} + \left(\frac{1}{5} \right)^2 \right) \\ &= \frac{9}{4} \times \left(\frac{5}{6} - \frac{1}{2} + \frac{1}{25} \right) \\ &= \frac{9}{4} \times \left(\frac{5}{6} - \frac{1}{2} + \frac{1}{25} \right) \\ &= \frac{9}{4} \times \left(\frac{1}{3} + \frac{1}{25} \right) \\ &= \frac{9}{4} \times \frac{28}{75} \\ &= \frac{21}{25} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{6} + \frac{8}{9} \div \frac{1}{3} - \frac{5}{6} \right)^3 \times \frac{1}{5} \div \frac{7}{9} \\ &= \left(\frac{1}{6} + \frac{8}{3} - \frac{5}{6} \right)^3 \times \frac{1}{5} \div \frac{7}{9} \\ &= \left(\frac{17}{6} - \frac{5}{6} \right)^3 \times \frac{1}{5} \div \frac{7}{9} \\ &= 2^3 \times \frac{1}{5} \div \frac{7}{9} \\ &= 8 \times \frac{1}{5} \div \frac{7}{9} \\ &= \frac{8}{5} \div \frac{7}{9} \\ &= \frac{72}{35} \\ &= 2 \frac{2}{35} \end{aligned}$$