

Following the Order of Operations With Fractions

①

$$\frac{1}{3} \cdot \frac{3}{4} - \left(\frac{2}{3}\right)^2 =$$

$$\frac{1}{\cancel{3}} \cdot \frac{\cancel{3}}{4} - \frac{4}{9} =$$

$$\frac{1}{4} - \frac{4}{9}$$

$$\frac{1 \cdot 9}{4 \cdot 9} - \frac{4 \cdot 4}{9 \cdot 4} = \frac{9}{36} - \frac{16}{36}$$

$$\frac{-7}{36}$$

- ① Grouping Symbols
- ② Exponents
- ③ \times & \div : Right to left
- ④ $+$ & $-$: Right to left

$$\begin{aligned} 9 - 16 \\ 9 + (-16) \end{aligned}$$

②

$$\left(\frac{3}{5}\right)^2 - \frac{1}{3} + \frac{2}{5} =$$

$$\frac{3 \cdot 3}{5 \cdot 5} = \frac{9}{25} - \frac{1}{3} + \frac{2}{5}$$

$$\frac{9 \cdot 3}{25 \cdot 3} = \frac{27}{75}$$

$$\frac{1 \cdot 25}{3 \cdot 25} = \frac{25}{75}$$

$$\frac{2}{75}$$

$$\frac{2}{75} + \frac{2}{5}$$

$$\frac{2 \cdot 1}{75 \cdot 1} = \frac{2}{75}$$

$$+ \frac{2 \cdot 15}{5 \cdot 15} = \frac{30}{75}$$

$$\frac{32}{75}$$