

Unit 1: Review – Integers & Rationals [NO CALCULATORS]

1.6 Rationals: Order of Operations

- Use the same order of operations with fractions: **BEDMAS**
- Common denominator (LCD) for adding & subtracting.
- Pre-cancel **ONLY** when multiplying.
- Change division to multiplication by the reciprocal.

Ex. Evaluate:

$$\begin{aligned}
 \text{a) } & \frac{2}{5} - \frac{3}{4} \times \frac{6}{5} \\
 & = \frac{2}{5} - \frac{9}{10} \\
 & = \frac{4}{10} - \frac{9}{10} \\
 & = -\frac{5}{10} \\
 & = \boxed{-\frac{1}{2}}
 \end{aligned}$$

$$\begin{aligned}
 \text{b) } & \left(\frac{2}{5} - \frac{3}{4} \right) \times \frac{6}{5} \\
 & = \left(\frac{8}{20} - \frac{15}{20} \right) \times \frac{6}{5} \\
 & = -\frac{7}{20} \times \frac{6}{5} \\
 & = \boxed{-\frac{21}{50}}
 \end{aligned}$$