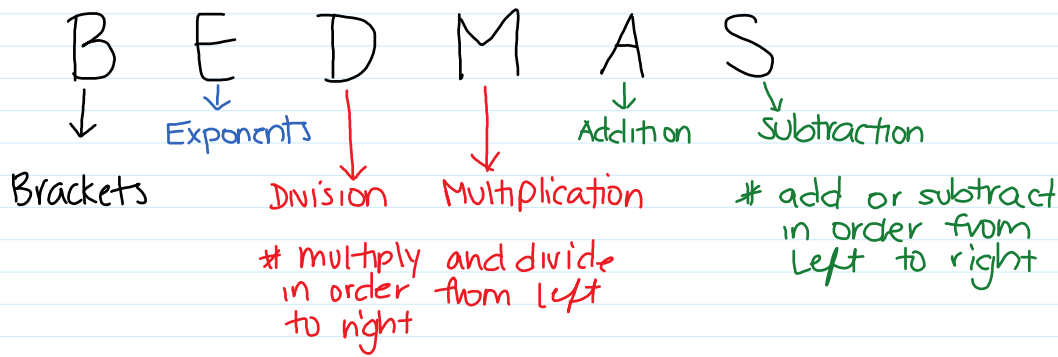


6.6 Applying Fraction Operations

February 25, 2016 10:19 AM



Ex #1

$$\begin{aligned} & 2 - \frac{1}{4} + 3 \times \frac{1}{2} \\ &= \frac{2}{1} \times \frac{4}{1} + 3 \times \frac{1}{2} \\ &= \frac{8}{1} + 3 \times \frac{1}{2} \\ &= \frac{8}{1} + \frac{3}{1} \times \frac{1}{2} \\ &= \frac{8 \times 2}{1 \times 2} + \frac{3}{2} \Rightarrow \frac{16}{2} + \frac{3}{2} = \frac{19}{2} = \boxed{9\frac{1}{2}} \end{aligned}$$

$$\begin{aligned} \text{b)} & \frac{1}{3} \times (9-2) - \frac{5}{6} \\ &= \frac{1}{3} \times (7) - \frac{5}{6} \\ &= \frac{7 \times 2}{3 \times 2} - \frac{5}{6} \Rightarrow \frac{14}{6} - \frac{5}{6} = \frac{9-5}{6} = \frac{4}{6} = \frac{2}{3} = \boxed{1\frac{1}{3}} \end{aligned}$$

$$\begin{aligned} \text{c)} & 2\frac{1}{4} - \left(1\frac{3}{4} + 1\frac{1}{4}\right) \\ &= 2\frac{1}{4} - \left(2\frac{4}{4}\right) \\ &= 2\frac{1}{4} - 3 \\ &= \frac{9}{4} \times \frac{1}{3} = \frac{9}{12} = \boxed{\frac{3}{4}} \end{aligned}$$

* or $\frac{7}{4} + \frac{5}{4}$
 $= \frac{12}{4}$
 $= 3$

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