

15. Addition and Subtraction of Fractions with Unlike Denominators

a)

$$\begin{aligned} 1/2 + 1/4 &= 1 \times 2 / 2 \times 2 + 1/4 \\ &= 2/4 + 1/4 \\ &= 3/4 \end{aligned}$$

$$\begin{aligned} 1/3 + 1/6 &= 1 \times 2 / 3 \times 2 + 1/6 \\ &= 2/6 + 1/6 \\ &= 1/2 \end{aligned}$$

$$\begin{aligned} 2/3 - 1/2 &= 2 \times 2 / 3 \times 2 - 1 \times 3 / 2 \times 3 \\ &= 4/6 - 3/6 \\ &= 1/6 \end{aligned}$$

$$\begin{aligned} 3/4 + 1/8 &= 3 \times 2 / 4 \times 2 + 1/8 \\ &= 6/8 + 1/8 \\ &= 7/8 \end{aligned}$$

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b)

$$\frac{1}{4} + \frac{1}{8} = \boxed{}$$

c)

$$\frac{5}{6} - \frac{1}{2} = \boxed{}$$

d)

$$\frac{2}{5} + \frac{1}{10} = \boxed{}$$

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e)

$$\frac{7}{8} - \frac{1}{4} = \boxed{}$$

f)

$$\frac{1}{3} + \frac{3}{10} = \boxed{}$$