

Adding & Subtracting Unlike Fractions

5.NF.1 Using the Smiley-Face Method

Step 1: Circle the denominators and connect them (Eyes and mouth).

$$\frac{3}{4} - \frac{1}{3} =$$

Step 2: Make your "X" to multiply (Nose). Write the product in both denominators after the equal sign.

$$\frac{3}{4} - \frac{1}{3} = \frac{\quad}{12} - \frac{\quad}{12}$$

Step 4: Solve by adding or subtracting. Simplify if necessary

$$\frac{3}{4} - \frac{1}{3} = \frac{9}{12} - \frac{4}{12}$$

Step 3: Cross multiply. Write your products in both denominators after the equal sign.

$$\frac{3}{4} - \frac{1}{3} = \frac{9}{12} - \frac{4}{12} = \frac{5}{12}$$

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PRACTICE:

Add or subtract the following fractions.

$$1) \frac{\boxed{3}}{\boxed{5}} + \frac{\boxed{3}}{\boxed{8}} = \frac{\boxed{}}{\boxed{}}$$

$$2) \frac{\boxed{2}}{\boxed{7}} + \frac{\boxed{1}}{\boxed{4}} = \frac{\boxed{}}{\boxed{}}$$

$$3) \frac{\boxed{2}}{\boxed{5}} + \frac{\boxed{1}}{\boxed{2}} = \frac{\boxed{}}{\boxed{}}$$

$$4) \frac{\boxed{3}}{\boxed{5}} + \frac{\boxed{1}}{\boxed{3}} = \frac{\boxed{}}{\boxed{}}$$

$$5) \frac{\boxed{2}}{\boxed{6}} - \frac{\boxed{1}}{\boxed{4}} = \frac{\boxed{}}{\boxed{}}$$

$$6) \frac{\boxed{5}}{\boxed{7}} - \frac{\boxed{2}}{\boxed{3}} = \frac{\boxed{}}{\boxed{}}$$

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$$7) \begin{array}{r} \boxed{1} \\ \hline \boxed{2} \end{array} - \begin{array}{r} \boxed{1} \\ \hline \boxed{5} \end{array} = \begin{array}{r} \boxed{} \\ \hline \boxed{} \end{array}$$

$$8) \begin{array}{r} \boxed{7} \\ \hline \boxed{10} \end{array} - \begin{array}{r} \boxed{1} \\ \hline \boxed{4} \end{array} = \begin{array}{r} \boxed{} \\ \hline \boxed{} \end{array}$$

$$9) \begin{array}{r} \boxed{6} \\ \hline \boxed{7} \end{array} - \begin{array}{r} \boxed{2} \\ \hline \boxed{3} \end{array} = \begin{array}{r} \boxed{} \\ \hline \boxed{} \end{array}$$

$$10) \begin{array}{r} \boxed{3} \\ \hline \boxed{8} \end{array} + \begin{array}{r} \boxed{3} \\ \hline \boxed{4} \end{array} = \begin{array}{r} \boxed{} \\ \hline \boxed{} \end{array}$$