

## Adding 'Like' Fractions

ASF 1

**Instructions:** Add these 'like' fractions using the procedure you learned in the video. You do not need to simplify your answers.

$$1 \quad \frac{2}{9} + \frac{5}{9} = \frac{7}{9}$$

$$2 \quad \frac{10}{25} + \frac{4}{25} = \frac{14}{25}$$

$$3 \quad \frac{3}{8} + \frac{2}{8} = \frac{5}{8}$$

$$4 \quad \frac{8}{40} + \frac{15}{40} = \frac{23}{40}$$

$$5 \quad \frac{5}{10} + \frac{4}{10} = \frac{9}{10}$$

$$6 \quad \frac{7}{7} + \frac{1}{7} = \frac{8}{7}$$

$$7 \quad \frac{1}{5} + \frac{1}{5} = \frac{2}{5}$$

$$8 \quad \frac{0}{12} + \frac{10}{12} = \frac{10}{12}$$

$$9 \quad \frac{4}{14} + \frac{9}{14} = \frac{13}{14}$$

$$10 \quad \frac{40}{72} + \frac{21}{72} = \frac{61}{72}$$

$$11 \quad \frac{3}{40} + \frac{6}{40} = \frac{9}{40}$$

$$12 \quad \frac{1}{2} + \frac{8}{2} = \frac{9}{2}$$

$$13 \quad \frac{9}{55} + \frac{9}{55} = \frac{18}{55}$$

$$14 \quad \frac{15}{125} + \frac{45}{125} = \frac{60}{125}$$

$$15 \quad \frac{11}{32} + \frac{16}{32} = \frac{27}{32}$$

$$16 \quad \frac{120}{330} + \frac{55}{330} = \frac{175}{330}$$

$$17 \quad \frac{50}{100} + \frac{25}{100} = \frac{75}{100}$$

$$18 \quad \frac{18}{68} + \frac{32}{68} = \frac{50}{68}$$

$$19 \quad \frac{1}{27} + \frac{26}{27} = \frac{27}{27} = 1$$

$$20 \quad \frac{35}{512} + \frac{180}{512} = \frac{215}{512}$$

## Subtracting 'Like' Fractions

ASF 2

Instructions: Subtract these 'like' fractions. You do **not** need to simplify your answers.

$$1 \quad \frac{7}{8} - \frac{4}{8} = \frac{3}{8}$$

$$2 \quad \frac{28}{21} - \frac{8}{21} = \frac{20}{21}$$

$$3 \quad \frac{5}{6} - \frac{1}{6} = \frac{4}{6}$$

$$4 \quad \frac{9}{35} - \frac{6}{35} = \frac{3}{35}$$

$$5 \quad \frac{12}{15} - \frac{4}{15} = \frac{8}{15}$$

$$6 \quad \frac{15}{14} - \frac{5}{14} = \frac{10}{14}$$

$$7 \quad \frac{10}{12} - \frac{9}{12} = \frac{1}{12}$$

$$8 \quad \frac{35}{80} - \frac{15}{80} = \frac{20}{80}$$

$$9 \quad \frac{9}{9} - \frac{9}{9} = \frac{0}{9} = 0$$

$$10 \quad \frac{50}{100} - \frac{12}{100} = \frac{38}{100}$$

$$11 \quad \frac{20}{44} - \frac{8}{44} = \frac{12}{44}$$

$$12 \quad \frac{81}{91} - \frac{44}{91} = \frac{37}{91}$$

$$13 \quad \frac{14}{26} - \frac{5}{26} = \frac{9}{26}$$

$$14 \quad \frac{12}{50} - \frac{6}{50} = \frac{6}{50}$$

$$15 \quad \frac{45}{75} - \frac{9}{75} = \frac{36}{75}$$

$$16 \quad \frac{230}{245} - \frac{130}{245} = \frac{100}{245}$$

$$17 \quad \frac{100}{88} - \frac{30}{88} = \frac{70}{88}$$

$$18 \quad \frac{500}{675} - \frac{480}{675} = \frac{20}{675}$$

$$19 \quad \frac{115}{200} - \frac{25}{200} = \frac{90}{200}$$

$$20 \quad \frac{65}{48} - \frac{25}{48} = \frac{40}{48}$$

## Adding and Subtracting 'Like' Fractions

ASF 3

**Instructions:** Add or subtract these 'like' fractions. Pay close attention to the sign (plus or minus). You do **not** need to simplify your answers.

$$1 \quad \frac{8}{10} - \frac{7}{10} = \frac{1}{10}$$

$$2 \quad \frac{3}{25} + \frac{30}{25} = \frac{33}{25}$$

$$3 \quad \frac{20}{32} + \frac{7}{32} = \frac{27}{32}$$

$$4 \quad \frac{17}{30} + \frac{5}{30} = \frac{22}{30}$$

$$5 \quad \frac{3}{15} + \frac{3}{15} = \frac{6}{15}$$

$$6 \quad \frac{12}{16} - \frac{11}{16} = \frac{1}{16}$$

$$7 \quad \frac{50}{44} - \frac{48}{44} = \frac{2}{44}$$

$$8 \quad \frac{27}{79} - \frac{23}{79} = \frac{4}{79}$$

$$9 \quad \frac{15}{18} + \frac{4}{18} = \frac{19}{18}$$

$$10 \quad \frac{11}{22} + \frac{10}{22} = \frac{21}{22}$$

$$11 \quad \frac{28}{50} - \frac{16}{50} = \frac{12}{50}$$

$$12 \quad \frac{8}{46} - \frac{3}{46} = \frac{5}{46}$$

$$13 \quad \frac{9}{11} - \frac{6}{11} = \frac{3}{11}$$

$$14 \quad \frac{96}{136} + \frac{6}{136} = \frac{102}{136}$$

$$15 \quad \frac{21}{24} + \frac{20}{24} = \frac{41}{24}$$

$$16 \quad \frac{35}{98} + \frac{35}{98} = \frac{70}{98}$$

$$17 \quad \frac{68}{80} - \frac{50}{80} = \frac{18}{80}$$

$$18 \quad \frac{20}{31} + \frac{13}{31} = \frac{33}{31}$$

$$19 \quad \frac{15}{38} + \frac{5}{38} = \frac{20}{38}$$

$$20 \quad \frac{19}{19} - \frac{8}{19} = \frac{11}{19}$$

## Adding and Subtracting 'Like' Fractions (Multi-Step Problems)

ASF 4

**Instructions:** Solve these multi-step problems involving the addition and subtraction of 'like' fractions. Remember the *Order of Operations* rules. You do **not** need to simplify your answers.

$$\begin{aligned} 1 \quad \frac{3}{10} + \frac{6}{10} - \frac{5}{10} &= \frac{4}{10} \\ \frac{9}{10} - \frac{5}{10} &= \frac{4}{10} \end{aligned}$$

$$\begin{aligned} 2 \quad \frac{9}{8} - \left( \frac{5}{8} + \frac{1}{8} \right) &= \frac{3}{8} \\ \frac{9}{8} - \frac{6}{8} &= \frac{3}{8} \end{aligned}$$

$$\begin{aligned} 3 \quad \frac{6}{15} + \frac{7}{15} - \frac{4}{15} &= \frac{9}{15} \\ \frac{13}{15} - \frac{4}{15} &= \frac{9}{15} \end{aligned}$$

$$\begin{aligned} 4 \quad \frac{50}{61} - \left( \frac{25}{61} - \frac{20}{61} \right) &= \frac{45}{61} \\ \frac{50}{61} - \frac{5}{61} &= \frac{45}{61} \end{aligned}$$

$$\begin{aligned} 5 \quad \frac{8}{26} + \frac{2}{26} + \frac{7}{26} &= \frac{17}{26} \\ \frac{10}{26} + \frac{7}{26} &= \frac{17}{26} \end{aligned}$$

$$\begin{aligned} 6 \quad \frac{16}{40} - \left( \frac{5}{40} + \frac{7}{40} \right) &= \frac{4}{40} \\ \frac{16}{40} - \frac{12}{40} &= \frac{4}{40} \end{aligned}$$

$$\begin{aligned} 7 \quad \frac{15}{20} + \left( \frac{35}{20} - \frac{32}{20} \right) &= \frac{18}{20} \\ \frac{15}{20} + \frac{3}{20} &= \frac{18}{20} \end{aligned}$$

$$\begin{aligned} 8 \quad \frac{11}{77} + \frac{12}{77} + \frac{13}{77} &= \frac{36}{77} \\ \frac{23}{77} + \frac{13}{77} &= \frac{36}{77} \end{aligned}$$

$$\begin{aligned} 9 \quad \frac{25}{54} - \frac{10}{54} - \frac{7}{54} &= \frac{8}{54} \\ \frac{15}{54} - \frac{7}{54} &= \frac{8}{54} \end{aligned}$$

$$\begin{aligned} 10 \quad \frac{45}{82} - \left( \frac{30}{82} + \frac{15}{82} \right) &= \frac{0}{82} = 0 \\ \frac{45}{82} - \frac{45}{82} &= 0 \end{aligned}$$

$$\begin{aligned} 11 \quad \frac{14}{38} + \left( \frac{15}{38} - \frac{7}{38} \right) &= \frac{22}{38} \\ \frac{14}{38} + \frac{8}{38} &= \frac{22}{38} \end{aligned}$$

$$\begin{aligned} 12 \quad \frac{26}{59} - \frac{6}{59} - \frac{10}{59} &= \frac{10}{59} \\ \frac{20}{59} - \frac{10}{59} &= \frac{10}{59} \end{aligned}$$