

Adding and Subtracting Fractions

Name: _____

OBJECTIVE: Adding two fractions with like denominators where the sum is a whole number or mixed number.

Remember: denominators MUST be the same!

$$\begin{array}{r} \frac{9}{10} \\ + \frac{2}{10} \\ \hline \frac{11}{10} \end{array}$$

$$\begin{array}{r} \frac{4}{5} \\ + \frac{4}{5} \\ \hline \frac{8}{5} \text{ or } 1\frac{3}{5} \end{array}$$

$$\begin{array}{r} \frac{11}{15} \\ + \frac{6}{15} \\ \hline \frac{17}{15} \text{ or } 1\frac{2}{15} \end{array}$$

$$\begin{array}{r} \frac{4}{5} \\ + \frac{1}{5} \\ \hline \frac{5}{5} = 1 \end{array}$$

$$\begin{array}{r} \frac{5}{8} \\ + \frac{6}{8} \\ \hline \frac{11}{8} \text{ or } 1\frac{3}{8} \end{array}$$

$$\begin{array}{r} \frac{4}{6} \\ + \frac{3}{6} \\ \hline \frac{7}{6} \text{ or } 1\frac{1}{6} \end{array}$$

$$\begin{array}{r} \frac{2}{8} \\ + \frac{6}{8} \\ \hline \frac{8}{8} = 1 \end{array}$$

$$\begin{array}{r} \frac{3}{4} \\ + \frac{2}{4} \\ \hline \frac{5}{4} \text{ or } 1\frac{1}{4} \end{array}$$

$$\begin{array}{r} \frac{7}{8} \\ + \frac{2}{8} \\ \hline \frac{9}{8} \text{ or } 1\frac{1}{8} \end{array}$$

$$\begin{array}{r} \frac{2}{9} \\ + \frac{7}{9} \\ \hline \frac{9}{9} = 1 \end{array}$$

$$\begin{array}{r} \frac{7}{15} \\ + \frac{1}{3} \\ \hline \frac{13}{15} \end{array}$$

$$\begin{array}{r} \frac{2}{15} \\ + \frac{1}{3} \\ \hline \frac{5}{15} = \frac{1}{3} \end{array}$$

$$\begin{array}{r} \frac{2}{3} \\ + \frac{4}{6} \\ \hline \frac{6}{6} = 1 \end{array}$$

$$\begin{array}{r} \frac{5}{10} \\ + \frac{1}{30} \\ \hline \frac{16}{30} = \frac{8}{15} \end{array}$$

$$\begin{array}{r} \frac{2}{3} \\ + \frac{5}{9} \\ \hline \frac{11}{9} \text{ or } 1\frac{2}{9} \end{array}$$

$$\begin{array}{r} \frac{4}{10} \\ + \frac{2}{20} \\ \hline \frac{10}{20} = \frac{1}{2} \end{array}$$

$$\begin{array}{r} \frac{5}{14} \\ + \frac{2}{28} \\ \hline \frac{12}{28} = \frac{3}{7} \end{array}$$

$$\begin{array}{r} \frac{2}{24} \\ + \frac{8}{24} \\ \hline \frac{10}{24} = \frac{5}{12} \end{array}$$

$$\begin{array}{r} \frac{4}{6} \\ + \frac{5}{12} \\ \hline \frac{13}{12} = 1\frac{1}{12} \end{array}$$

$$\begin{array}{r} \frac{1}{2} \\ + \frac{2}{16} \\ \hline \frac{10}{16} = \frac{5}{8} \end{array}$$

OBJECTIVE: Adding two fractions with unlike denominators where both denominators must be changed (express in lowest terms).

$$\begin{array}{r} \frac{7}{8} \frac{21}{24} \\ + \frac{2}{3} \frac{16}{24} \\ \hline \frac{37}{24} \end{array}$$

$$\begin{array}{r} \frac{4}{5} \frac{32}{40} \\ + \frac{3}{8} \frac{15}{40} \\ \hline \frac{47}{40} \end{array}$$

$$\begin{array}{r} \frac{5}{7} \frac{20}{28} \\ + \frac{3}{4} \frac{21}{28} \\ \hline \frac{41}{28} \end{array}$$

$$\begin{array}{r} \frac{4}{5} \frac{16}{20} \\ + \frac{3}{4} \frac{15}{20} \\ \hline \frac{31}{20} \end{array}$$

$$\begin{array}{r} \frac{1}{5} \frac{3}{15} \\ + \frac{2}{3} \frac{10}{15} \\ \hline \frac{13}{15} \end{array}$$

$$\begin{array}{r} \frac{4}{7} \frac{36}{63} \\ + \frac{8}{9} \frac{56}{63} \\ \hline \frac{92}{63} \end{array}$$

$$\begin{array}{r} \frac{5}{7} \frac{15}{21} \\ + \frac{2}{3} \frac{14}{21} \\ \hline \frac{29}{21} \end{array}$$

$$\begin{array}{r} \frac{2}{7} \frac{12}{42} \\ + \frac{5}{6} \frac{35}{42} \\ \hline \frac{47}{42} \end{array}$$

$$\begin{array}{r} \frac{9}{10} \frac{27}{30} \\ + \frac{3}{6} \frac{15}{30} \\ \hline \frac{42}{30} = \frac{21}{15} \end{array}$$

$$\begin{array}{r} \frac{1}{8} \frac{3}{24} \\ + \frac{3}{12} \frac{6}{24} \\ \hline \frac{9}{24} = \frac{3}{8} \end{array}$$

$$\begin{array}{r} 42 \frac{3}{4} \frac{9}{12} \\ + 15 \frac{5}{6} \frac{10}{12} \\ \hline 57 \frac{19}{12} = 58 \frac{7}{12} \end{array}$$

$$\begin{array}{r} 38 \frac{5}{6} \frac{15}{18} \\ + 41 \frac{2}{9} \frac{4}{18} \\ \hline 79 \frac{19}{18} = 80 \frac{1}{18} \end{array}$$

$$\begin{array}{r} 29 \frac{2}{5} \frac{8}{20} \\ + 46 \frac{3}{4} \frac{15}{20} \\ \hline 75 \frac{23}{20} = 76 \frac{3}{20} \end{array}$$

$$\begin{array}{r} 36 \frac{2}{3} \frac{10}{15} \\ + 12 \frac{2}{5} \frac{6}{15} \\ \hline 48 \frac{16}{15} = 49 \frac{1}{15} \end{array}$$

$$\begin{array}{r} 21 \frac{5}{6} \frac{15}{18} \\ + 21 \frac{5}{9} \frac{10}{18} \\ \hline 42 \frac{25}{18} = 43 \frac{7}{18} \end{array}$$

$$\begin{array}{r} 34 \frac{1}{3} \frac{4}{12} \\ + 27 \frac{3}{4} \frac{9}{12} \\ \hline 61 \frac{13}{12} = 62 \frac{1}{12} \end{array}$$

$$\begin{array}{r} 29 \frac{3}{8} \frac{15}{40} \\ + 16 \frac{2}{5} \frac{16}{40} \\ \hline 45 \frac{31}{40} \end{array}$$

$$\begin{array}{r} 49 \frac{4}{5} \frac{8}{10} \\ + 36 \frac{1}{2} \frac{5}{10} \\ \hline 85 \frac{13}{10} = 86 \frac{3}{10} \end{array}$$

OBJECTIVE: Subtracting proper fractions with like denominators (express in lowest terms).

$$\begin{array}{r} \frac{6}{8} \\ - \frac{4}{8} \\ \hline \frac{2}{8} = \frac{1}{4} \end{array}$$

$$\begin{array}{r} \frac{12}{16} \\ - \frac{8}{16} \\ \hline \frac{4}{16} = \frac{1}{4} \end{array}$$

$$\begin{array}{r} \frac{7}{12} \\ - \frac{4}{12} \\ \hline \frac{3}{12} = \frac{1}{4} \end{array}$$

$$\begin{array}{r} \frac{8}{9} \\ - \frac{5}{9} \\ \hline \frac{3}{9} = \frac{1}{3} \end{array}$$

$$\begin{array}{r} \frac{11}{15} \\ - \frac{6}{15} \\ \hline \frac{5}{15} = \frac{1}{3} \end{array}$$

$$\begin{array}{r} \frac{6}{10} \\ - \frac{4}{10} \\ \hline \frac{2}{10} = \frac{1}{5} \end{array}$$

$$\begin{array}{r} \frac{7}{14} \\ - \frac{5}{14} \\ \hline \frac{2}{14} = \frac{1}{7} \end{array}$$

$$\begin{array}{r} \frac{6}{8} \\ - \frac{2}{8} \\ \hline \frac{4}{8} = \frac{1}{2} \end{array}$$

$$\begin{array}{r} \frac{12}{18} \\ - \frac{6}{18} \\ \hline \frac{6}{18} = \frac{1}{3} \end{array}$$

$$\begin{array}{r} \frac{11}{16} \\ - \frac{9}{16} \\ \hline \frac{2}{16} = \frac{1}{8} \end{array}$$

$$\begin{array}{r} \frac{1}{2} \frac{7}{14} \\ - \frac{3}{7} \frac{6}{14} \\ \hline \frac{1}{14} \end{array}$$

$$\begin{array}{r} \frac{11}{12} \\ - \frac{5}{6} \frac{10}{12} \\ \hline \frac{1}{12} \end{array}$$

$$\begin{array}{r} \frac{7}{9} \frac{28}{36} \\ - \frac{5}{12} \frac{15}{36} \\ \hline \frac{13}{36} \end{array}$$

$$\begin{array}{r} \frac{3}{4} \frac{9}{12} \\ - \frac{2}{3} \frac{8}{12} \\ \hline \frac{1}{12} \end{array}$$

$$\begin{array}{r} \frac{4}{7} \frac{20}{35} \\ - \frac{2}{5} \frac{14}{35} \\ \hline \frac{6}{35} \end{array}$$

$$\begin{array}{r} \frac{1}{2} \frac{8}{16} \\ - \frac{3}{16} \\ \hline \frac{5}{16} \end{array}$$

$$\begin{array}{r} \frac{5}{12} \frac{10}{24} \\ - \frac{3}{8} \frac{9}{24} \\ \hline \frac{1}{24} \end{array}$$

$$\begin{array}{r} \frac{5}{9} \frac{35}{63} \\ - \frac{2}{7} \frac{18}{63} \\ \hline \frac{17}{63} \end{array}$$

$$\begin{array}{r} \frac{2}{3} \frac{16}{15} \\ - \frac{1}{5} \frac{3}{15} \\ \hline \frac{7}{15} \end{array}$$

$$\begin{array}{r} \frac{1}{3} \frac{8}{24} \\ - \frac{1}{8} \frac{3}{24} \\ \hline \frac{5}{24} \end{array}$$

Name _____



OBJECTIVE: Subtracting mixed numbers with unlike denominators, no regrouping (express in lowest terms).

$$\begin{array}{r} 26\frac{1}{2}\frac{8}{16} \\ - 13\frac{3}{16} \\ \hline 13\frac{5}{16} \end{array}$$

$$\begin{array}{r} 17\frac{3}{4}\frac{9}{12} \\ - 11\frac{5}{12} \\ \hline 6\frac{4}{12} = 6\frac{1}{3} \end{array}$$

$$\begin{array}{r} 16\frac{11}{12} \\ - 12\frac{5}{6}\frac{10}{12} \\ \hline 4\frac{1}{12} \end{array}$$

$$\begin{array}{r} 27\frac{3}{4}\frac{18}{24} \\ - 15\frac{3}{8}\frac{9}{24} \\ \hline 12\frac{9}{24} \\ 12\frac{3}{8} \end{array}$$

$$\begin{array}{r} 35\frac{3}{4}\frac{15}{20} \\ - 21\frac{1}{5}\frac{4}{20} \\ \hline 14\frac{11}{20} \end{array}$$

$$\begin{array}{r} 88\frac{7}{9} \\ - 47\frac{1}{3}\frac{3}{9} \\ \hline 41\frac{4}{9} \end{array}$$

$$\begin{array}{r} 47\frac{11}{12} \\ - 10\frac{3}{4}\frac{9}{12} \\ \hline 37\frac{2}{12} \\ 37\frac{1}{6} \end{array}$$

$$\begin{array}{r} 26\frac{13}{18} \\ - 12\frac{5}{9}\frac{10}{18} \\ \hline 14\frac{3}{18} \\ 14\frac{1}{6} \end{array}$$

$$\begin{array}{r} 14\frac{3}{4}\frac{12}{16} \\ - 11\frac{5}{16} \\ \hline 3\frac{7}{16} \end{array}$$

$$\begin{array}{r} 36\frac{16}{18} \\ - 23\frac{2}{3}\frac{12}{18} \\ \hline 13\frac{4}{18} \\ 13\frac{2}{9} \end{array}$$

$$\begin{array}{r} 67\frac{4}{5}\frac{8}{10} \\ - 24\frac{3}{10} \\ \hline 43\frac{5}{10} \\ 43 = \frac{1}{2} \end{array}$$

$$\begin{array}{r} 15\frac{2}{3}\frac{8}{12} \\ - 14\frac{5}{12} \\ \hline 1\frac{3}{12} \\ 1\frac{1}{4} \end{array}$$

$$\begin{array}{r} 27\frac{7}{10} \\ - 14\frac{2}{5}\frac{4}{10} \\ \hline 13\frac{3}{10} \end{array}$$

$$\begin{array}{r} 35\frac{13}{15} \\ - 22\frac{2}{3}\frac{10}{15} \\ \hline 13\frac{3}{15} \\ 13\frac{1}{5} \end{array}$$

$$\begin{array}{r} 29\frac{13}{14} \\ - 14\frac{5}{7}\frac{10}{14} \\ \hline 15\frac{3}{14} \end{array}$$

$$\begin{array}{r} 88\frac{12}{16} \\ - 22\frac{1}{4}\frac{4}{16} \\ \hline 66\frac{8}{16} \\ 66\frac{1}{2} \end{array}$$