

Add/Subtract Three Mixed Numbers

1. When adding three fractions, you still need a common denominator.

- All of the denominators need to “go into” the common one, or all of the denominators need to be _____ of the common one.

Find a common denominator (c.d) that will work for adding these fractions.

| | Fractions | c.d. |
|----|-----------------------------------------------|------|
| a. | $\frac{1}{2}, \frac{2}{5}$ and $\frac{1}{3}$ | |
| b. | $\frac{3}{4}, \frac{1}{12}$ and $\frac{1}{6}$ | |

| | Fractions | c.d. |
|----|----------------------------------------------|------|
| c. | $\frac{5}{8}, \frac{3}{4}$ and $\frac{1}{2}$ | |
| d. | $\frac{1}{3}, \frac{2}{5}$ and $\frac{3}{4}$ | |

| | Fractions | c.d. |
|----|-----------------------------------------------|------|
| e. | $\frac{7}{10}, \frac{3}{4}$ and $\frac{1}{2}$ | |
| f. | $\frac{1}{5}, \frac{1}{6}$ and $\frac{7}{10}$ | |

2. Add the fractions in the above exercise. Give your answer in lowest terms.

- | | |
|----|----|
| a. | b. |
| c. | d. |
| e. | f. |

3. Add and subtract. First write equivalent fractions with a common denominator. Find your answers in the grid below - in lowest terms. COLOR the right answers with bright colors, and the wrong answers with a dark color.

a. $3\frac{1}{3} - 1\frac{2}{15} + 1\frac{2}{5}$

f. $7\frac{7}{8} - 1\frac{1}{2} - 2\frac{1}{4}$

b. $\frac{7}{10} + \frac{2}{25} + 1\frac{2}{5}$

g. $3\frac{7}{20} - 1\frac{1}{12} - 1\frac{1}{4}$

c. $6\frac{67}{100} - 1\frac{2}{5} + 1\frac{11}{20}$

h. $5\frac{1}{6} + 1\frac{3}{8} - 2\frac{1}{3}$

d. $3\frac{1}{2} - \frac{2}{3} - \frac{7}{16}$

i. $19\frac{7}{11} - 10\frac{1}{3} - 4\frac{1}{2}$

e. $\frac{13}{16} + 2\frac{1}{12} + 2\frac{3}{24}$

| | | | | |
|------------------|------------------|------------------|------------------|------------------|
| $5\frac{1}{48}$ | $2\frac{7}{24}$ | $2\frac{5}{48}$ | $5\frac{3}{50}$ | $1\frac{1}{60}$ |
| $3\frac{11}{48}$ | $6\frac{1}{8}$ | $4\frac{5}{24}$ | $3\frac{17}{24}$ | $2\frac{1}{50}$ |
| $3\frac{53}{66}$ | $2\frac{19}{48}$ | $2\frac{9}{50}$ | $4\frac{1}{8}$ | $3\frac{7}{8}$ |
| $3\frac{1}{5}$ | $3\frac{2}{15}$ | $3\frac{3}{5}$ | $5\frac{13}{66}$ | $5\frac{4}{5}$ |
| $4\frac{53}{66}$ | $1\frac{29}{60}$ | $4\frac{11}{50}$ | $7\frac{39}{50}$ | $6\frac{41}{50}$ |