Fractions, Whole, & Mixed Numbers- Sum & Difference

MrB4math.com

Just as with fractions, mixed numbers require common denominators when adding or subtracting.

1) $10\frac{4\cdot2}{9\cdot2} + 5\frac{1\cdot3}{6\cdot3}$

$10\frac{8}{18}$

$5\frac{3}{18}$

$15\frac{11}{18}$

2) $6\frac{8\cdot2}{15\cdot2} - 2\frac{7\cdot3}{10\cdot3}$

$6\frac{16}{30} + \frac{30}{30} \rightarrow 5\frac{46}{30}$

$2\frac{21}{30} \rightarrow 2\frac{21}{30}$

$3\frac{25}{30}$

$= 3\frac{5}{6}$

3) $\frac{7\cdot4}{10\cdot4} + 6\frac{3\cdot5}{8\cdot5}$

$6\frac{15}{40}$

$\frac{28}{40}$

$6\frac{43}{40}$

$= 6 + 1\frac{3}{40} = 7\frac{3}{40}$

4) $9\frac{3}{14} - \frac{5\cdot2}{7\cdot2}$

$9\frac{3}{14} + \frac{14}{14} \rightarrow 8\frac{17}{14}$

$\frac{10}{14} \rightarrow \frac{10}{14}$

$8\frac{7}{14}$

$= 8\frac{1}{2}$

Fractions, Whole, & Mixed Numbers- Sum & Difference

MrB4math.com

5) $37 + \frac{2}{5}$

$37\frac{2}{5}$

with borrowing

$37\frac{5}{5} + \frac{2}{5}$

$36\frac{5}{5}$

$\frac{2}{5}$

$36\frac{7}{5}$

$= 36 + 1\frac{2}{5} = 37\frac{2}{5}$

7) $37\frac{5}{5} - \frac{2}{5}$

$36\frac{5}{5}$

$\frac{2}{5}$

$36\frac{3}{5}$

in your mind

$37 - \frac{2}{5}$

$36\frac{3}{5}$

6) $26\frac{7}{7} - \frac{4}{7}$

$25\frac{7}{7}$

$\frac{4}{7}$

$25\frac{3}{7}$

in your mind

$26 - \frac{4}{7}$

$25\frac{3}{7}$

8) $\frac{4}{15} + 7$

$7\frac{4}{15}$

Same as

$7 + \frac{4}{15}$

$7\frac{4}{15}$