

Subtracting Fractions

KEY

Example 1 regroup

$$3\frac{1}{3} \times \frac{4}{4} = 3\frac{4}{12} = 2\frac{16}{12}$$

$$- 1\frac{3}{4} \times \frac{3}{3} = 1\frac{9}{12} - 1\frac{9}{12} = 1\frac{7}{12}$$

Example 2

$$3\frac{1}{3} = \frac{10}{3} \times \frac{4}{4} = \frac{40}{12}$$

$$- 1\frac{3}{4} = -\frac{7}{4} \times \frac{3}{3} = -\frac{21}{12} \quad \frac{19}{12} = 1\frac{7}{12}$$

$$2\frac{1}{2} \times \frac{5}{5} = 2\frac{5}{10} = 1\frac{15}{10}$$

$$- \frac{4}{5} \times \frac{2}{2} = \frac{8}{10} - \frac{8}{10}$$

$$\underline{1\frac{7}{10}}$$

$$2\frac{1}{2} = \frac{5}{2} \times \frac{5}{5} = \frac{25}{10}$$

$$- \frac{4}{5} = \frac{4}{5} \times \frac{2}{2} = \frac{8}{10}$$

$$\underline{1\frac{7}{10}}$$

$$2\frac{1}{6} \times 2 = \frac{2+12}{12} = 2\frac{14}{12}$$

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

$$\underline{1\frac{5}{12}}$$

$$3\frac{1}{6}$$

$$\frac{19}{6} \times \frac{38}{12} = \frac{17}{12} = 1\frac{5}{12}$$

$$- 1\frac{3}{4} = \frac{7}{4} \times \frac{21}{12}$$

$$4\frac{2}{3} \times \frac{5}{5} = \frac{10}{15} \quad 3\frac{4}{15} \times \frac{10+15}{15} = 3\frac{25}{15}$$

$$- 2\frac{4}{5} \times \frac{3}{3} = \frac{12}{15} \quad 2\frac{12}{15} - 2\frac{12}{15}$$

$$\underline{1\frac{13}{15}}$$

$$4\frac{2}{3} \times \frac{5}{5} = \frac{20}{15}$$

$$- 2\frac{4}{5} \times \frac{3}{3} = \frac{42}{15}$$

$$\underline{1\frac{13}{15}}$$

$$1\frac{2}{5} \times \frac{9}{9} = \frac{18}{45} + \frac{45}{45} = \frac{63}{45}$$

$$- \frac{8}{9} \times \frac{5}{5} = \frac{40}{45} - \frac{40}{45}$$

$$\underline{1\frac{23}{45}}$$

$$1\frac{2}{5}$$

$$- \frac{8}{9} = \frac{7}{5} \times \frac{63}{45}$$

$$\underline{2\frac{23}{45}}$$

Adding Fractions

Name KEY
Rm

Example: $\frac{2}{3} + \frac{4}{7}$

$$\frac{2}{3} \times \frac{7}{7} = \frac{14}{21}$$

$$+ \frac{4}{7} \times \frac{3}{3} = \frac{12}{21}$$

$$\frac{26}{21} = 1\frac{5}{21}$$

$$\frac{3}{5} \times \frac{4}{4} = \frac{12}{20}$$

$$+ \frac{3}{4} \times \frac{5}{5} = \frac{15}{20}$$

$$\frac{27}{20} = 1\frac{7}{20}$$

$$2\frac{1}{2} \times \frac{5}{5} = \frac{25}{10}$$

$$+ \frac{4}{5} \times \frac{2}{2} = \frac{8}{10}$$

$$2\frac{13}{10} = 3\frac{3}{10}$$

$$\frac{4}{9} \times \frac{5}{5} = \frac{20}{45}$$

$$+ \frac{2}{5} \times \frac{9}{9} = \frac{18}{45}$$

$$\frac{38}{45}$$

$$3\frac{3}{4} \times \frac{3}{3} = \frac{9}{12}$$

$$+ 1\frac{5}{6} \times \frac{2}{2} = \frac{10}{12}$$

$$4\frac{19}{12} = 5\frac{7}{12}$$

$$\frac{3}{8} \times \frac{3}{3} = \frac{9}{24}$$

$$+ \frac{5}{6} \times \frac{4}{4} = \frac{20}{24}$$

$$\frac{29}{24}$$

$$1\frac{5}{24}$$

$$2\frac{2}{5} \times \frac{3}{3} = \frac{6}{15}$$

$$+ 1\frac{2}{3} \times \frac{5}{5} = \frac{10}{15}$$

$$3\frac{16}{15} = 4\frac{1}{15}$$