

Addition:

$$\frac{5}{15} + \frac{3}{9} = \frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$

$$\frac{2}{13} + \frac{5}{26} = \frac{4}{26} + \frac{5}{26} = \frac{9}{26}$$

$$\frac{11}{22} + \frac{12}{24} = \frac{1}{2} + \frac{1}{2} = \frac{2}{2} = 1$$

$$\frac{1}{4} + \frac{6}{8} = \frac{1}{4} + \frac{3}{4} = \frac{4}{4} = 1$$

$$\frac{1}{13} + \frac{3}{52} = \frac{4}{52} + \frac{3}{52} = \frac{7}{52}$$

$$\frac{17}{19} + \frac{4}{38} = \frac{34}{38} + \frac{4}{38} = \frac{38}{38} = 1$$

$$\frac{5}{9} + \frac{9}{5} = \frac{25}{45} + \frac{81}{45} = \frac{106}{45} = 2\frac{16}{45}$$

$$\frac{4}{17} + \frac{8}{12} = \frac{4}{17} + \frac{2}{3} = \frac{12}{51} + \frac{34}{51} = \frac{46}{51}$$

$$\frac{5}{21} + \frac{3}{7} = \frac{5}{21} + \frac{9}{21} = \frac{14}{21} = \frac{2}{3}$$

$$\frac{3}{13} + \frac{2}{14} = \frac{3}{13} + \frac{1}{7} = \frac{21}{91} + \frac{13}{91} = \frac{34}{91}$$

$$\frac{5}{23} + \frac{8}{92} = \frac{5}{23} + \frac{2}{23} = \frac{7}{23}$$

$$\frac{17}{31} + \frac{21}{93} = \frac{17}{31} + \frac{7}{31} = \frac{24}{31}$$