

Multiplikation:

$$\frac{122}{76} * \frac{81}{153} = \frac{61}{38} * \frac{9}{17} = \frac{549}{646}$$

$$\frac{71}{23} * \frac{115}{213} = \frac{71}{1} * \frac{5}{213} = \frac{1}{1} * \frac{5}{3} = \frac{5}{3} = 1 \frac{2}{3}$$

$$\frac{17}{11} * \frac{4}{8} = \frac{17}{11} * \frac{1}{2} = \frac{17}{22}$$

$$\frac{12}{81} * \frac{243}{156} = \frac{4}{27} * \frac{81}{52} = \frac{4}{1} * \frac{3}{52} = \frac{1}{1} * \frac{3}{13} = \frac{3}{13}$$

Division:

$$\frac{305}{48} : \frac{55}{32} = \frac{305}{48} * \frac{32}{55} = \frac{61}{3} * \frac{2}{11} = \frac{122}{33} = 3 \frac{23}{33}$$

$$\frac{5}{10} : \frac{12}{59} = \frac{5}{10} * \frac{59}{12} = \frac{1}{2} * \frac{59}{12} = \frac{59}{24} = 2 \frac{11}{24}$$

$$\frac{20}{72} : \frac{7}{8} = \frac{20}{72} * \frac{8}{7} = \frac{20}{9} * \frac{1}{7} = \frac{20}{63}$$

$$\frac{19}{43} : \frac{3}{5} = \frac{19}{43} * \frac{5}{3} = \frac{95}{129}$$

Gemischte Aufgaben:

$$\frac{11}{33} + \frac{6}{18} + \frac{17}{51} * \frac{2}{4} = \frac{1}{3} + \frac{1}{3} + \frac{1}{3} * \frac{1}{2} = \frac{2}{3} + \frac{1}{6} = \frac{4}{6} + \frac{1}{6} = \frac{5}{6}$$

$$\frac{13}{9} : \frac{4}{7} - \frac{5}{28} * \frac{3}{10} = \frac{13}{9} * \frac{7}{4} - \frac{1}{28} * \frac{3}{2} = \frac{91}{36} - \frac{3}{56} = \frac{1274}{504} - \frac{27}{504} = \frac{1247}{504} = 2 \frac{239}{504}$$

$$\frac{7}{8} - \frac{13}{16} * \frac{5}{7} - \frac{6}{14} = \frac{7}{8} - \frac{65}{112} - \frac{3}{7} = \frac{98}{112} - \frac{65}{112} - \frac{3}{7} = \frac{33}{112} - \frac{3}{7} = \frac{33}{112} - \frac{48}{112} = -\frac{15}{112}$$

$$\frac{3}{4} + \frac{2}{3} * \frac{7}{8} : \frac{14}{20} = \frac{3}{4} + \frac{2}{3} * \frac{7}{8} * \frac{20}{14} = \frac{3}{4} + \frac{1}{3} * \frac{7}{4} * \frac{10}{7} = \frac{3}{4} + \frac{1}{3} * \frac{1}{2} * \frac{5}{1} = \frac{3}{4} + \frac{5}{6} = \frac{9}{12} + \frac{10}{12} = \frac{19}{12} = 1 \frac{7}{12}$$