

Dividiere die Brüche und wandle in einen gemischten Bruch um, falls möglich:

① a) $\frac{2}{19} : \frac{4}{33} =$

b) $\frac{1}{4} : \frac{9}{26} =$

c) $\frac{12}{13} : \frac{2}{5} =$

d) $\frac{5}{22} : \frac{3}{16} =$

② a) $\frac{2}{15} : \frac{6}{17} =$

b) $\frac{5}{42} : \frac{1}{12} =$

c) $\frac{10}{19} : \frac{2}{7} =$

d) $\frac{1}{6} : \frac{11}{21} =$

③ a) $\frac{3}{4} : \frac{9}{16} =$

b) $\frac{5}{8} : \frac{10}{17} =$

c) $\frac{1}{32} : \frac{3}{38} =$

d) $\frac{1}{30} : \frac{1}{27} =$

④ a) $\frac{4}{19} : \frac{4}{23} =$

b) $\frac{7}{10} : \frac{9}{14} =$

c) $\frac{1}{2} : \frac{15}{26} =$

d) $\frac{9}{13} : \frac{3}{5} =$

⑤ a) $\frac{2}{3} : \frac{13}{21} =$

b) $\frac{1}{4} : \frac{23}{44} =$

c) $\frac{5}{9} : \frac{5}{17} =$

d) $\frac{2}{37} : \frac{2}{43} =$

Dividiere die Brüche und wandle in einen gemischten Bruch um, falls möglich:

- ① a) $\frac{2}{19} : \frac{4}{33} = \frac{2}{19} \cdot \frac{33}{4} = \frac{1 \cdot 33}{19 \cdot 2} = \frac{33}{38}$ b) $\frac{1}{4} : \frac{9}{26} = \frac{1}{4} \cdot \frac{26}{9} = \frac{1 \cdot 13}{2 \cdot 9} = \frac{13}{18}$
- c) $\frac{12}{13} : \frac{2}{5} = \frac{12}{13} \cdot \frac{5}{2} = \frac{6 \cdot 5}{13 \cdot 1} = 2 \frac{4}{13}$ d) $\frac{5}{22} : \frac{3}{16} = \frac{5}{22} \cdot \frac{16}{3} = \frac{5 \cdot 8}{11 \cdot 3} = 1 \frac{7}{33}$
- ② a) $\frac{2}{15} : \frac{6}{17} = \frac{2}{15} \cdot \frac{17}{6} = \frac{1 \cdot 17}{15 \cdot 3} = \frac{17}{45}$ b) $\frac{5}{42} : \frac{1}{12} = \frac{5}{42} \cdot \frac{12}{1} = \frac{5 \cdot 2}{7 \cdot 1} = 1 \frac{3}{7}$
- c) $\frac{10}{19} : \frac{2}{7} = \frac{10}{19} \cdot \frac{7}{2} = \frac{5 \cdot 7}{19 \cdot 1} = 1 \frac{16}{19}$ d) $\frac{1}{6} : \frac{11}{21} = \frac{1}{6} \cdot \frac{21}{11} = \frac{1 \cdot 7}{2 \cdot 11} = \frac{7}{22}$
- ③ a) $\frac{3}{4} : \frac{9}{16} = \frac{3}{4} \cdot \frac{16}{9} = \frac{1 \cdot 4}{1 \cdot 3} = 1 \frac{1}{3}$ b) $\frac{5}{8} : \frac{10}{17} = \frac{5}{8} \cdot \frac{17}{10} = \frac{1 \cdot 17}{8 \cdot 2} = 1 \frac{1}{16}$
- c) $\frac{1}{32} : \frac{3}{38} = \frac{1}{32} \cdot \frac{38}{3} = \frac{1 \cdot 19}{16 \cdot 3} = \frac{19}{48}$ d) $\frac{1}{30} : \frac{1}{27} = \frac{1}{30} \cdot \frac{27}{1} = \frac{1 \cdot 9}{10 \cdot 1} = \frac{9}{10}$
- ④ a) $\frac{4}{19} : \frac{4}{23} = \frac{4}{19} \cdot \frac{23}{4} = \frac{1 \cdot 23}{19 \cdot 1} = 1 \frac{4}{19}$ b) $\frac{7}{10} : \frac{9}{14} = \frac{7}{10} \cdot \frac{14}{9} = \frac{7 \cdot 7}{5 \cdot 9} = 1 \frac{4}{45}$
- c) $\frac{1}{2} : \frac{15}{26} = \frac{1}{2} \cdot \frac{26}{15} = \frac{1 \cdot 13}{1 \cdot 15} = \frac{13}{15}$ d) $\frac{9}{13} : \frac{3}{5} = \frac{9}{13} \cdot \frac{5}{3} = \frac{3 \cdot 5}{13 \cdot 1} = 1 \frac{2}{13}$
- ⑤ a) $\frac{2}{3} : \frac{13}{21} = \frac{2}{3} \cdot \frac{21}{13} = \frac{2 \cdot 7}{1 \cdot 13} = 1 \frac{1}{13}$ b) $\frac{1}{4} : \frac{23}{44} = \frac{1}{4} \cdot \frac{44}{23} = \frac{1 \cdot 11}{1 \cdot 23} = \frac{11}{23}$
- c) $\frac{5}{9} : \frac{5}{17} = \frac{5}{9} \cdot \frac{17}{5} = \frac{1 \cdot 17}{9 \cdot 1} = 1 \frac{8}{9}$ d) $\frac{2}{37} : \frac{2}{43} = \frac{2}{37} \cdot \frac{43}{2} = \frac{1 \cdot 43}{37 \cdot 1} = 1 \frac{6}{37}$