

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

① a) $\frac{5}{21} : \frac{1}{9} =$

b) $\frac{3}{10} : \frac{9}{22} =$

c) $\frac{11}{20} : \frac{2}{5} =$

d) $\frac{3}{4} : \frac{17}{30} =$

② a) $\frac{1}{8} : \frac{11}{14} =$

b) $\frac{1}{3} : \frac{19}{39} =$

c) $\frac{4}{11} : \frac{1}{11} =$

d) $\frac{4}{15} : \frac{2}{23} =$

③ a) $\frac{1}{10} : \frac{3}{22} =$

b) $\frac{3}{40} : \frac{1}{28} =$

c) $\frac{4}{7} : \frac{8}{21} =$

d) $\frac{3}{26} : \frac{3}{23} =$

④ a) $\frac{5}{11} : \frac{9}{11} =$

b) $\frac{4}{5} : \frac{4}{13} =$

c) $\frac{2}{3} : \frac{2}{41} =$

d) $\frac{5}{18} : \frac{3}{4} =$

⑤ a) $\frac{5}{16} : \frac{1}{2} =$

b) $\frac{4}{7} : \frac{10}{23} =$

c) $\frac{7}{8} : \frac{5}{6} =$

d) $\frac{4}{11} : \frac{2}{5} =$

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

- ① a) $\frac{5}{21} : \frac{1}{9} = \frac{5}{21} \cdot \frac{9}{1} = \frac{5 \cdot 3}{7 \cdot 1} = 2 \frac{1}{7}$ b) $\frac{3}{10} : \frac{9}{22} = \frac{3}{10} \cdot \frac{22}{9} = \frac{1 \cdot 11}{5 \cdot 3} = \frac{11}{15}$
- c) $\frac{11}{20} : \frac{2}{5} = \frac{11}{20} \cdot \frac{5}{2} = \frac{11 \cdot 1}{4 \cdot 2} = 1 \frac{3}{8}$ d) $\frac{3}{4} : \frac{17}{30} = \frac{3}{4} \cdot \frac{30}{17} = \frac{3 \cdot 15}{2 \cdot 17} = 1 \frac{11}{34}$
- ② a) $\frac{1}{8} : \frac{11}{14} = \frac{1}{8} \cdot \frac{14}{11} = \frac{1 \cdot 7}{4 \cdot 11} = \frac{7}{44}$ b) $\frac{1}{3} : \frac{19}{39} = \frac{1}{3} \cdot \frac{39}{19} = \frac{1 \cdot 13}{1 \cdot 19} = \frac{13}{19}$
- c) $\frac{4}{11} : \frac{1}{11} = \frac{4}{11} \cdot \frac{11}{1} = \frac{4 \cdot 1}{1 \cdot 1} = 4$ d) $\frac{4}{15} : \frac{2}{23} = \frac{4}{15} \cdot \frac{23}{2} = \frac{2 \cdot 23}{15 \cdot 1} = 3 \frac{1}{15}$
- ③ a) $\frac{1}{10} : \frac{3}{22} = \frac{1}{10} \cdot \frac{22}{3} = \frac{1 \cdot 11}{5 \cdot 3} = \frac{11}{15}$ b) $\frac{3}{40} : \frac{1}{28} = \frac{3}{40} \cdot \frac{28}{1} = \frac{3 \cdot 7}{10 \cdot 1} = 2 \frac{1}{10}$
- c) $\frac{4}{7} : \frac{8}{21} = \frac{4}{7} \cdot \frac{21}{8} = \frac{1 \cdot 3}{1 \cdot 2} = 1 \frac{1}{2}$ d) $\frac{3}{26} : \frac{3}{23} = \frac{3}{26} \cdot \frac{23}{3} = \frac{1 \cdot 23}{26 \cdot 1} = \frac{23}{26}$
- ④ a) $\frac{5}{11} : \frac{9}{11} = \frac{5}{11} \cdot \frac{11}{9} = \frac{5 \cdot 1}{1 \cdot 9} = \frac{5}{9}$ b) $\frac{4}{5} : \frac{4}{13} = \frac{4}{5} \cdot \frac{13}{4} = \frac{1 \cdot 13}{5 \cdot 1} = 2 \frac{3}{5}$
- c) $\frac{2}{3} : \frac{2}{41} = \frac{2}{3} \cdot \frac{41}{2} = \frac{1 \cdot 41}{3 \cdot 1} = 13 \frac{2}{3}$ d) $\frac{5}{18} : \frac{3}{4} = \frac{5}{18} \cdot \frac{4}{3} = \frac{5 \cdot 2}{9 \cdot 3} = \frac{10}{27}$
- ⑤ a) $\frac{5}{16} : \frac{1}{2} = \frac{5}{16} \cdot \frac{2}{1} = \frac{5 \cdot 1}{8 \cdot 1} = \frac{5}{8}$ b) $\frac{4}{7} : \frac{10}{23} = \frac{4}{7} \cdot \frac{23}{10} = \frac{2 \cdot 23}{7 \cdot 5} = 1 \frac{11}{35}$
- c) $\frac{7}{8} : \frac{5}{6} = \frac{7}{8} \cdot \frac{6}{5} = \frac{7 \cdot 3}{4 \cdot 5} = 1 \frac{1}{20}$ d) $\frac{4}{11} : \frac{2}{5} = \frac{4}{11} \cdot \frac{5}{2} = \frac{2 \cdot 5}{11 \cdot 1} = \frac{10}{11}$