

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

① a) $\frac{6}{41} : \frac{2}{7} =$

b) $\frac{3}{11} : \frac{9}{22} =$

c) $\frac{1}{3} : \frac{1}{45} =$

d) $\frac{6}{23} : \frac{3}{14} =$

② a) $\frac{4}{17} : \frac{4}{7} =$

b) $\frac{1}{6} : \frac{10}{27} =$

c) $\frac{5}{8} : \frac{9}{16} =$

d) $\frac{14}{33} : \frac{2}{5} =$

③ a) $\frac{1}{14} : \frac{5}{21} =$

b) $\frac{2}{3} : \frac{20}{27} =$

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

d) $\frac{7}{26} : \frac{2}{13} =$

④ a) $\frac{1}{19} : \frac{3}{19} =$

b) $\frac{1}{8} : \frac{5}{12} =$

c) $\frac{9}{35} : \frac{1}{5} =$

d) $\frac{7}{22} : \frac{3}{10} =$

⑤ a) $\frac{3}{16} : \frac{5}{6} =$

b) $\frac{2}{17} : \frac{1}{34} =$

c) $\frac{7}{32} : \frac{3}{14} =$

d) $\frac{1}{12} : \frac{7}{18} =$

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

- ① a) $\frac{6}{41} : \frac{2}{7} = \frac{6}{41} \cdot \frac{7}{2} = \frac{3 \cdot 7}{41 \cdot 1} = \frac{21}{41}$ b) $\frac{3}{11} : \frac{9}{22} = \frac{3}{11} \cdot \frac{22}{9} = \frac{1 \cdot 2}{1 \cdot 3} = \frac{2}{3}$
- c) $\frac{1}{3} : \frac{1}{45} = \frac{1}{3} \cdot \frac{45}{1} = \frac{1 \cdot 15}{1 \cdot 1} = 15$ d) $\frac{6}{23} : \frac{3}{14} = \frac{6}{23} \cdot \frac{14}{3} = \frac{2 \cdot 14}{23 \cdot 1} = 1 \frac{5}{23}$
- ② a) $\frac{4}{17} : \frac{4}{7} = \frac{4}{17} \cdot \frac{7}{4} = \frac{1 \cdot 7}{17 \cdot 1} = \frac{7}{17}$ b) $\frac{1}{6} : \frac{10}{27} = \frac{1}{6} \cdot \frac{27}{10} = \frac{1 \cdot 9}{2 \cdot 10} = \frac{9}{20}$
- c) $\frac{5}{8} : \frac{9}{16} = \frac{5}{8} \cdot \frac{16}{9} = \frac{5 \cdot 2}{1 \cdot 9} = 1 \frac{1}{9}$ d) $\frac{14}{33} : \frac{2}{5} = \frac{14}{33} \cdot \frac{5}{2} = \frac{7 \cdot 5}{33 \cdot 1} = 1 \frac{2}{33}$
- ③ a) $\frac{1}{14} : \frac{5}{21} = \frac{1}{14} \cdot \frac{21}{5} = \frac{1 \cdot 3}{2 \cdot 5} = \frac{3}{10}$ b) $\frac{2}{3} : \frac{20}{27} = \frac{2}{3} \cdot \frac{27}{20} = \frac{1 \cdot 9}{1 \cdot 10} = \frac{9}{10}$
- c) $\frac{3}{4} : \frac{17}{30} = \frac{3}{4} \cdot \frac{30}{17} = \frac{3 \cdot 15}{2 \cdot 17} = 1 \frac{11}{34}$ d) $\frac{7}{26} : \frac{2}{13} = \frac{7}{26} \cdot \frac{13}{2} = \frac{7 \cdot 1}{2 \cdot 2} = 1 \frac{3}{4}$
- ④ a) $\frac{1}{19} : \frac{3}{19} = \frac{1}{19} \cdot \frac{19}{3} = \frac{1 \cdot 1}{1 \cdot 3} = \frac{1}{3}$ b) $\frac{1}{8} : \frac{5}{12} = \frac{1}{8} \cdot \frac{12}{5} = \frac{1 \cdot 3}{2 \cdot 5} = \frac{3}{10}$
- c) $\frac{9}{35} : \frac{1}{5} = \frac{9}{35} \cdot \frac{5}{1} = \frac{9 \cdot 1}{7 \cdot 1} = 1 \frac{2}{7}$ d) $\frac{7}{22} : \frac{3}{10} = \frac{7}{22} \cdot \frac{10}{3} = \frac{7 \cdot 5}{11 \cdot 3} = 1 \frac{2}{33}$
- ⑤ a) $\frac{3}{16} : \frac{5}{6} = \frac{3}{16} \cdot \frac{6}{5} = \frac{3 \cdot 3}{8 \cdot 5} = \frac{9}{40}$ b) $\frac{2}{17} : \frac{1}{34} = \frac{2}{17} \cdot \frac{34}{1} = \frac{2 \cdot 2}{1 \cdot 1} = 4$
- c) $\frac{7}{32} : \frac{3}{14} = \frac{7}{32} \cdot \frac{14}{3} = \frac{7 \cdot 7}{16 \cdot 3} = 1 \frac{1}{48}$ d) $\frac{1}{12} : \frac{7}{18} = \frac{1}{12} \cdot \frac{18}{7} = \frac{1 \cdot 3}{2 \cdot 7} = \frac{3}{14}$