

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

① a) $\frac{7}{16} : \frac{5}{8} =$

b) $\frac{1}{4} : \frac{25}{26} =$

c) $\frac{3}{7} : \frac{3}{19} =$

d) $\frac{17}{40} : \frac{2}{5} =$

② a) $\frac{4}{25} : \frac{4}{23} =$

b) $\frac{3}{35} : \frac{1}{30} =$

c) $\frac{8}{13} : \frac{6}{11} =$

d) $\frac{2}{29} : \frac{2}{19} =$

③ a) $\frac{3}{14} : \frac{5}{21} =$

b) $\frac{3}{10} : \frac{1}{10} =$

c) $\frac{2}{5} : \frac{14}{45} =$

d) $\frac{3}{4} : \frac{15}{17} =$

④ a) $\frac{1}{28} : \frac{1}{42} =$

b) $\frac{2}{7} : \frac{2}{21} =$

c) $\frac{4}{9} : \frac{10}{13} =$

d) $\frac{4}{19} : \frac{4}{5} =$

⑤ a) $\frac{9}{10} : \frac{5}{8} =$

b) $\frac{15}{16} : \frac{1}{2} =$

c) $\frac{7}{12} : \frac{8}{9} =$

d) $\frac{2}{3} : \frac{29}{30} =$

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

- ① a) $\frac{7}{16} : \frac{5}{8} = \frac{7}{16} \cdot \frac{8}{5} = \frac{7 \cdot 1}{2 \cdot 5} = \frac{7}{10}$ b) $\frac{1}{4} : \frac{25}{26} = \frac{1}{4} \cdot \frac{26}{25} = \frac{1 \cdot 13}{2 \cdot 25} = \frac{13}{50}$
- c) $\frac{3}{7} : \frac{3}{19} = \frac{3}{7} \cdot \frac{19}{3} = \frac{1 \cdot 19}{7 \cdot 1} = 2 \frac{5}{7}$ d) $\frac{17}{40} : \frac{2}{5} = \frac{17}{40} \cdot \frac{5}{2} = \frac{17 \cdot 1}{8 \cdot 2} = 1 \frac{1}{16}$
- ② a) $\frac{4}{25} : \frac{4}{23} = \frac{4}{25} \cdot \frac{23}{4} = \frac{1 \cdot 23}{25 \cdot 1} = \frac{23}{25}$ b) $\frac{3}{35} : \frac{1}{30} = \frac{3}{35} \cdot \frac{30}{1} = \frac{3 \cdot 6}{7 \cdot 1} = 2 \frac{4}{7}$
- c) $\frac{8}{13} : \frac{6}{11} = \frac{8}{13} \cdot \frac{11}{6} = \frac{4 \cdot 11}{13 \cdot 3} = 1 \frac{5}{39}$ d) $\frac{2}{29} : \frac{2}{19} = \frac{2}{29} \cdot \frac{19}{2} = \frac{1 \cdot 19}{29 \cdot 1} = \frac{19}{29}$
- ③ a) $\frac{3}{14} : \frac{5}{21} = \frac{3}{14} \cdot \frac{21}{5} = \frac{3 \cdot 3}{2 \cdot 5} = \frac{9}{10}$ b) $\frac{3}{10} : \frac{1}{10} = \frac{3}{10} \cdot \frac{10}{1} = \frac{3 \cdot 1}{1 \cdot 1} = 3$
- c) $\frac{2}{5} : \frac{14}{45} = \frac{2}{5} \cdot \frac{45}{14} = \frac{1 \cdot 9}{1 \cdot 7} = 1 \frac{2}{7}$ d) $\frac{3}{4} : \frac{15}{17} = \frac{3}{4} \cdot \frac{17}{15} = \frac{1 \cdot 17}{4 \cdot 5} = \frac{17}{20}$
- ④ a) $\frac{1}{28} : \frac{1}{42} = \frac{1}{28} \cdot \frac{42}{1} = \frac{1 \cdot 3}{2 \cdot 1} = 1 \frac{1}{2}$ b) $\frac{2}{7} : \frac{2}{21} = \frac{2}{7} \cdot \frac{21}{2} = \frac{1 \cdot 3}{1 \cdot 1} = 3$
- c) $\frac{4}{9} : \frac{10}{13} = \frac{4}{9} \cdot \frac{13}{10} = \frac{2 \cdot 13}{9 \cdot 5} = \frac{26}{45}$ d) $\frac{4}{19} : \frac{4}{5} = \frac{4}{19} \cdot \frac{5}{4} = \frac{1 \cdot 5}{19 \cdot 1} = \frac{5}{19}$
- ⑤ a) $\frac{9}{10} : \frac{5}{8} = \frac{9}{10} \cdot \frac{8}{5} = \frac{9 \cdot 4}{5 \cdot 5} = 1 \frac{11}{25}$ b) $\frac{15}{16} : \frac{1}{2} = \frac{15}{16} \cdot \frac{2}{1} = \frac{15 \cdot 1}{8 \cdot 1} = 1 \frac{7}{8}$
- c) $\frac{7}{12} : \frac{8}{9} = \frac{7}{12} \cdot \frac{9}{8} = \frac{7 \cdot 3}{4 \cdot 8} = \frac{21}{32}$ d) $\frac{2}{3} : \frac{29}{30} = \frac{2}{3} \cdot \frac{30}{29} = \frac{2 \cdot 10}{1 \cdot 29} = \frac{20}{29}$