

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

① a) $\frac{1}{20} : \frac{2}{25} =$

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

c) $\frac{2}{3} : \frac{10}{19} =$

d) $\frac{3}{10} : \frac{1}{14} =$

② a) $\frac{5}{16} : \frac{5}{8} =$

b) $\frac{4}{9} : \frac{4}{13} =$

c) $\frac{2}{7} : \frac{8}{39} =$

d) $\frac{3}{29} : \frac{3}{28} =$

③ a) $\frac{2}{19} : \frac{4}{27} =$

b) $\frac{1}{3} : \frac{5}{36} =$

c) $\frac{11}{30} : \frac{1}{4} =$

d) $\frac{1}{6} : \frac{7}{18} =$

④ a) $\frac{1}{22} : \frac{3}{38} =$

b) $\frac{17}{24} : \frac{2}{3} =$

c) $\frac{2}{7} : \frac{4}{21} =$

d) $\frac{1}{11} : \frac{9}{11} =$

⑤ a) $\frac{3}{17} : \frac{3}{17} =$

b) $\frac{9}{20} : \frac{1}{5} =$

c) $\frac{1}{14} : \frac{7}{8} =$

d) $\frac{2}{21} : \frac{4}{7} =$

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

- ① a) $\frac{1}{20} : \frac{2}{25} = \frac{1}{20} \cdot \frac{25}{2} = \frac{1 \cdot 5}{4 \cdot 2} = \frac{5}{8}$ b) $\frac{3}{4} : \frac{15}{17} = \frac{3}{4} \cdot \frac{17}{15} = \frac{1 \cdot 17}{4 \cdot 5} = \frac{17}{20}$
- c) $\frac{2}{3} : \frac{10}{19} = \frac{2}{3} \cdot \frac{19}{10} = \frac{1 \cdot 19}{3 \cdot 5} = 1 \frac{4}{15}$ d) $\frac{3}{10} : \frac{1}{14} = \frac{3}{10} \cdot \frac{14}{1} = \frac{3 \cdot 7}{5 \cdot 1} = 4 \frac{1}{5}$
- ② a) $\frac{5}{16} : \frac{5}{8} = \frac{5}{16} \cdot \frac{8}{5} = \frac{1 \cdot 1}{2 \cdot 1} = \frac{1}{2}$ b) $\frac{4}{9} : \frac{4}{13} = \frac{4}{9} \cdot \frac{13}{4} = \frac{1 \cdot 13}{9 \cdot 1} = 1 \frac{4}{9}$
- c) $\frac{2}{7} : \frac{8}{39} = \frac{2}{7} \cdot \frac{39}{8} = \frac{1 \cdot 39}{7 \cdot 4} = 1 \frac{11}{28}$ d) $\frac{3}{29} : \frac{3}{28} = \frac{3}{29} \cdot \frac{28}{3} = \frac{1 \cdot 28}{29 \cdot 1} = \frac{28}{29}$
- ③ a) $\frac{2}{19} : \frac{4}{27} = \frac{2}{19} \cdot \frac{27}{4} = \frac{1 \cdot 27}{19 \cdot 2} = \frac{27}{38}$ b) $\frac{1}{3} : \frac{5}{36} = \frac{1}{3} \cdot \frac{36}{5} = \frac{1 \cdot 12}{1 \cdot 5} = 2 \frac{2}{5}$
- c) $\frac{11}{30} : \frac{1}{4} = \frac{11}{30} \cdot \frac{4}{1} = \frac{11 \cdot 2}{15 \cdot 1} = 1 \frac{7}{15}$ d) $\frac{1}{6} : \frac{7}{18} = \frac{1}{6} \cdot \frac{18}{7} = \frac{1 \cdot 3}{1 \cdot 7} = \frac{3}{7}$
- ④ a) $\frac{1}{22} : \frac{3}{38} = \frac{1}{22} \cdot \frac{38}{3} = \frac{1 \cdot 19}{11 \cdot 3} = \frac{19}{33}$ b) $\frac{17}{24} : \frac{2}{3} = \frac{17}{24} \cdot \frac{3}{2} = \frac{17 \cdot 1}{8 \cdot 2} = 1 \frac{1}{16}$
- c) $\frac{2}{7} : \frac{4}{21} = \frac{2}{7} \cdot \frac{21}{4} = \frac{1 \cdot 3}{1 \cdot 2} = 1 \frac{1}{2}$ d) $\frac{1}{11} : \frac{9}{11} = \frac{1}{11} \cdot \frac{11}{9} = \frac{1 \cdot 1}{1 \cdot 9} = \frac{1}{9}$
- ⑤ a) $\frac{3}{17} : \frac{3}{17} = \frac{3}{17} \cdot \frac{17}{3} = \frac{1 \cdot 1}{1 \cdot 1} = 1$ b) $\frac{9}{20} : \frac{1}{5} = \frac{9}{20} \cdot \frac{5}{1} = \frac{9 \cdot 1}{4 \cdot 1} = 2 \frac{1}{4}$
- c) $\frac{1}{14} : \frac{7}{8} = \frac{1}{14} \cdot \frac{8}{7} = \frac{1 \cdot 4}{7 \cdot 7} = \frac{4}{49}$ d) $\frac{2}{21} : \frac{4}{7} = \frac{2}{21} \cdot \frac{7}{4} = \frac{1 \cdot 1}{3 \cdot 2} = \frac{1}{6}$