

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

① a) $\frac{3}{10} : \frac{8}{15} =$

b) $\frac{1}{35} : \frac{1}{28} =$

c) $\frac{2}{5} : \frac{2}{31} =$

d) $\frac{1}{2} : \frac{13}{34} =$

② a) $\frac{7}{32} : \frac{3}{8} =$

b) $\frac{6}{23} : \frac{4}{11} =$

c) $\frac{1}{3} : \frac{7}{39} =$

d) $\frac{7}{30} : \frac{1}{10} =$

③ a) $\frac{1}{45} : \frac{2}{33} =$

b) $\frac{3}{20} : \frac{3}{22} =$

c) $\frac{5}{16} : \frac{5}{19} =$

d) $\frac{1}{5} : \frac{8}{15} =$

④ a) $\frac{1}{40} : \frac{1}{42} =$

b) $\frac{12}{13} : \frac{2}{3} =$

c) $\frac{3}{4} : \frac{21}{25} =$

d) $\frac{1}{2} : \frac{5}{12} =$

⑤ a) $\frac{6}{29} : \frac{3}{16} =$

b) $\frac{8}{27} : \frac{1}{3} =$

c) $\frac{6}{35} : \frac{2}{11} =$

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

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

- ① a) $\frac{3}{10} : \frac{8}{15} = \frac{3}{10} \cdot \frac{15}{8} = \frac{3 \cdot 3}{2 \cdot 8} = \frac{9}{16}$ b) $\frac{1}{35} : \frac{1}{28} = \frac{1}{35} \cdot \frac{28}{1} = \frac{1 \cdot 4}{5 \cdot 1} = \frac{4}{5}$
- c) $\frac{2}{5} : \frac{2}{31} = \frac{2}{5} \cdot \frac{31}{2} = \frac{1 \cdot 31}{5 \cdot 1} = 6 \frac{1}{5}$ d) $\frac{1}{2} : \frac{13}{34} = \frac{1}{2} \cdot \frac{34}{13} = \frac{1 \cdot 17}{1 \cdot 13} = 1 \frac{4}{13}$
- ② a) $\frac{7}{32} : \frac{3}{8} = \frac{7}{32} \cdot \frac{8}{3} = \frac{7 \cdot 1}{4 \cdot 3} = \frac{7}{12}$ b) $\frac{6}{23} : \frac{4}{11} = \frac{6}{23} \cdot \frac{11}{4} = \frac{3 \cdot 11}{23 \cdot 2} = \frac{33}{46}$
- c) $\frac{1}{3} : \frac{7}{39} = \frac{1}{3} \cdot \frac{39}{7} = \frac{1 \cdot 13}{1 \cdot 7} = 1 \frac{6}{7}$ d) $\frac{7}{30} : \frac{1}{10} = \frac{7}{30} \cdot \frac{10}{1} = \frac{7 \cdot 1}{3 \cdot 1} = 2 \frac{1}{3}$
- ③ a) $\frac{1}{45} : \frac{2}{33} = \frac{1}{45} \cdot \frac{33}{2} = \frac{1 \cdot 11}{15 \cdot 2} = \frac{11}{30}$ b) $\frac{3}{20} : \frac{3}{22} = \frac{3}{20} \cdot \frac{22}{3} = \frac{1 \cdot 11}{10 \cdot 1} = 1 \frac{1}{10}$
- c) $\frac{5}{16} : \frac{5}{19} = \frac{5}{16} \cdot \frac{19}{5} = \frac{1 \cdot 19}{16 \cdot 1} = 1 \frac{3}{16}$ d) $\frac{1}{5} : \frac{8}{15} = \frac{1}{5} \cdot \frac{15}{8} = \frac{1 \cdot 3}{1 \cdot 8} = \frac{3}{8}$
- ④ a) $\frac{1}{40} : \frac{1}{42} = \frac{1}{40} \cdot \frac{42}{1} = \frac{1 \cdot 21}{20 \cdot 1} = 1 \frac{1}{20}$ b) $\frac{12}{13} : \frac{2}{3} = \frac{12}{13} \cdot \frac{3}{2} = \frac{6 \cdot 3}{13 \cdot 1} = 1 \frac{5}{13}$
- c) $\frac{3}{4} : \frac{21}{25} = \frac{3}{4} \cdot \frac{25}{21} = \frac{1 \cdot 25}{4 \cdot 7} = \frac{25}{28}$ d) $\frac{1}{2} : \frac{5}{12} = \frac{1}{2} \cdot \frac{12}{5} = \frac{1 \cdot 6}{1 \cdot 5} = 1 \frac{1}{5}$
- ⑤ a) $\frac{6}{29} : \frac{3}{16} = \frac{6}{29} \cdot \frac{16}{3} = \frac{2 \cdot 16}{29 \cdot 1} = 1 \frac{3}{29}$ b) $\frac{8}{27} : \frac{1}{3} = \frac{8}{27} \cdot \frac{3}{1} = \frac{8 \cdot 1}{9 \cdot 1} = \frac{8}{9}$
- c) $\frac{6}{35} : \frac{2}{11} = \frac{6}{35} \cdot \frac{11}{2} = \frac{3 \cdot 11}{35 \cdot 1} = \frac{33}{35}$ d) $\frac{4}{7} : \frac{10}{23} = \frac{4}{7} \cdot \frac{23}{10} = \frac{2 \cdot 23}{7 \cdot 5} = 1 \frac{11}{35}$