

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

① a) $\frac{11}{30} : \frac{3}{8} =$

b) $\frac{2}{5} : \frac{7}{15} =$

c) $\frac{4}{11} : \frac{2}{17} =$

d) $\frac{1}{2} : \frac{21}{44} =$

② a) $\frac{1}{6} : \frac{16}{27} =$

b) $\frac{1}{10} : \frac{5}{14} =$

c) $\frac{7}{11} : \frac{7}{12} =$

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

③ a) $\frac{1}{42} : \frac{1}{33} =$

b) $\frac{3}{8} : \frac{9}{14} =$

c) $\frac{6}{13} : \frac{2}{13} =$

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

④ a) $\frac{1}{6} : \frac{5}{16} =$

b) $\frac{2}{3} : \frac{19}{39} =$

c) $\frac{2}{11} : \frac{1}{22} =$

d) $\frac{1}{7} : \frac{9}{28} =$

⑤ a) $\frac{5}{36} : \frac{2}{9} =$

b) $\frac{5}{12} : \frac{7}{20} =$

c) $\frac{1}{5} : \frac{6}{35} =$

d) $\frac{1}{24} : \frac{4}{15} =$

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

- ① a) $\frac{11}{30} : \frac{3}{8} = \frac{11}{30} \cdot \frac{8}{3} = \frac{11 \cdot 4}{15 \cdot 3} = \frac{44}{45}$ b) $\frac{2}{5} : \frac{7}{15} = \frac{2}{5} \cdot \frac{15}{7} = \frac{2 \cdot 3}{1 \cdot 7} = \frac{6}{7}$
- c) $\frac{4}{11} : \frac{2}{17} = \frac{4}{11} \cdot \frac{17}{2} = \frac{2 \cdot 17}{11 \cdot 1} = 3 \frac{1}{11}$ d) $\frac{1}{2} : \frac{21}{44} = \frac{1}{2} \cdot \frac{44}{21} = \frac{1 \cdot 22}{1 \cdot 21} = 1 \frac{1}{21}$
- ② a) $\frac{1}{6} : \frac{16}{27} = \frac{1}{6} \cdot \frac{27}{16} = \frac{1 \cdot 9}{2 \cdot 16} = \frac{9}{32}$ b) $\frac{1}{10} : \frac{5}{14} = \frac{1}{10} \cdot \frac{14}{5} = \frac{1 \cdot 7}{5 \cdot 5} = \frac{7}{25}$
- c) $\frac{7}{11} : \frac{7}{12} = \frac{7}{11} \cdot \frac{12}{7} = \frac{1 \cdot 12}{11 \cdot 1} = 1 \frac{1}{11}$ d) $\frac{4}{7} : \frac{2}{7} = \frac{4}{7} \cdot \frac{7}{2} = \frac{2 \cdot 1}{1 \cdot 1} = 2$
- ③ a) $\frac{1}{42} : \frac{1}{33} = \frac{1}{42} \cdot \frac{33}{1} = \frac{1 \cdot 11}{14 \cdot 1} = \frac{11}{14}$ b) $\frac{3}{8} : \frac{9}{14} = \frac{3}{8} \cdot \frac{14}{9} = \frac{1 \cdot 7}{4 \cdot 3} = \frac{7}{12}$
- c) $\frac{6}{13} : \frac{2}{13} = \frac{6}{13} \cdot \frac{13}{2} = \frac{3 \cdot 1}{1 \cdot 1} = 3$ d) $\frac{11}{30} : \frac{1}{4} = \frac{11}{30} \cdot \frac{4}{1} = \frac{11 \cdot 2}{15 \cdot 1} = 1 \frac{7}{15}$
- ④ a) $\frac{1}{6} : \frac{5}{16} = \frac{1}{6} \cdot \frac{16}{5} = \frac{1 \cdot 8}{3 \cdot 5} = \frac{8}{15}$ b) $\frac{2}{3} : \frac{19}{39} = \frac{2}{3} \cdot \frac{39}{19} = \frac{2 \cdot 13}{1 \cdot 19} = 1 \frac{7}{19}$
- c) $\frac{2}{11} : \frac{1}{22} = \frac{2}{11} \cdot \frac{22}{1} = \frac{2 \cdot 2}{1 \cdot 1} = 4$ d) $\frac{1}{7} : \frac{9}{28} = \frac{1}{7} \cdot \frac{28}{9} = \frac{1 \cdot 4}{1 \cdot 9} = \frac{4}{9}$
- ⑤ a) $\frac{5}{36} : \frac{2}{9} = \frac{5}{36} \cdot \frac{9}{2} = \frac{5 \cdot 1}{4 \cdot 2} = \frac{5}{8}$ b) $\frac{5}{12} : \frac{7}{20} = \frac{5}{12} \cdot \frac{20}{7} = \frac{5 \cdot 5}{3 \cdot 7} = 1 \frac{4}{21}$
- c) $\frac{1}{5} : \frac{6}{35} = \frac{1}{5} \cdot \frac{35}{6} = \frac{1 \cdot 7}{1 \cdot 6} = 1 \frac{1}{6}$ d) $\frac{1}{24} : \frac{4}{15} = \frac{1}{24} \cdot \frac{15}{4} = \frac{1 \cdot 5}{8 \cdot 4} = \frac{5}{32}$