

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

① a) $\frac{7}{32} : \frac{1}{8} =$

b) $\frac{2}{7} : \frac{11}{28} =$

c) $\frac{11}{30} : \frac{3}{5} =$

d) $\frac{5}{12} : \frac{7}{18} =$

② a) $\frac{7}{24} : \frac{1}{4} =$

b) $\frac{1}{10} : \frac{5}{42} =$

c) $\frac{16}{33} : \frac{2}{5} =$

d) $\frac{1}{30} : \frac{1}{36} =$

③ a) $\frac{9}{32} : \frac{3}{7} =$

b) $\frac{8}{31} : \frac{2}{9} =$

c) $\frac{15}{38} : \frac{1}{6} =$

d) $\frac{1}{18} : \frac{3}{34} =$

④ a) $\frac{3}{4} : \frac{19}{22} =$

b) $\frac{1}{16} : \frac{1}{42} =$

c) $\frac{4}{25} : \frac{2}{15} =$

d) $\frac{2}{13} : \frac{6}{23} =$

⑤ a) $\frac{1}{4} : \frac{9}{20} =$

b) $\frac{2}{3} : \frac{7}{33} =$

c) $\frac{9}{10} : \frac{4}{5} =$

d) $\frac{5}{18} : \frac{5}{9} =$

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

- ① a) $\frac{7}{32} : \frac{1}{8} = \frac{7}{32} \cdot \frac{8}{1} = \frac{7 \cdot 1}{4 \cdot 1} = 1 \frac{3}{4}$ b) $\frac{2}{7} : \frac{11}{28} = \frac{2}{7} \cdot \frac{28}{11} = \frac{2 \cdot 4}{1 \cdot 11} = \frac{8}{11}$
- c) $\frac{11}{30} : \frac{3}{5} = \frac{11}{30} \cdot \frac{5}{3} = \frac{11 \cdot 1}{6 \cdot 3} = \frac{11}{18}$ d) $\frac{5}{12} : \frac{7}{18} = \frac{5}{12} \cdot \frac{18}{7} = \frac{5 \cdot 3}{2 \cdot 7} = 1 \frac{1}{14}$
- ② a) $\frac{7}{24} : \frac{1}{4} = \frac{7}{24} \cdot \frac{4}{1} = \frac{7 \cdot 1}{6 \cdot 1} = 1 \frac{1}{6}$ b) $\frac{1}{10} : \frac{5}{42} = \frac{1}{10} \cdot \frac{42}{5} = \frac{1 \cdot 21}{5 \cdot 5} = \frac{21}{25}$
- c) $\frac{16}{33} : \frac{2}{5} = \frac{16}{33} \cdot \frac{5}{2} = \frac{8 \cdot 5}{33 \cdot 1} = 1 \frac{7}{33}$ d) $\frac{1}{30} : \frac{1}{36} = \frac{1}{30} \cdot \frac{36}{1} = \frac{1 \cdot 6}{5 \cdot 1} = 1 \frac{1}{5}$
- ③ a) $\frac{9}{32} : \frac{3}{7} = \frac{9}{32} \cdot \frac{7}{3} = \frac{3 \cdot 7}{32 \cdot 1} = \frac{21}{32}$ b) $\frac{8}{31} : \frac{2}{9} = \frac{8}{31} \cdot \frac{9}{2} = \frac{4 \cdot 9}{31 \cdot 1} = 1 \frac{5}{31}$
- c) $\frac{15}{38} : \frac{1}{6} = \frac{15}{38} \cdot \frac{6}{1} = \frac{15 \cdot 3}{19 \cdot 1} = 2 \frac{7}{19}$ d) $\frac{1}{18} : \frac{3}{34} = \frac{1}{18} \cdot \frac{34}{3} = \frac{1 \cdot 17}{9 \cdot 3} = \frac{17}{27}$
- ④ a) $\frac{3}{4} : \frac{19}{22} = \frac{3}{4} \cdot \frac{22}{19} = \frac{3 \cdot 11}{2 \cdot 19} = \frac{33}{38}$ b) $\frac{1}{16} : \frac{1}{42} = \frac{1}{16} \cdot \frac{42}{1} = \frac{1 \cdot 21}{8 \cdot 1} = 2 \frac{5}{8}$
- c) $\frac{4}{25} : \frac{2}{15} = \frac{4}{25} \cdot \frac{15}{2} = \frac{2 \cdot 3}{5 \cdot 1} = 1 \frac{1}{5}$ d) $\frac{2}{13} : \frac{6}{23} = \frac{2}{13} \cdot \frac{23}{6} = \frac{1 \cdot 23}{13 \cdot 3} = \frac{23}{39}$
- ⑤ a) $\frac{1}{4} : \frac{9}{20} = \frac{1}{4} \cdot \frac{20}{9} = \frac{1 \cdot 5}{1 \cdot 9} = \frac{5}{9}$ b) $\frac{2}{3} : \frac{7}{33} = \frac{2}{3} \cdot \frac{33}{7} = \frac{2 \cdot 11}{1 \cdot 7} = 3 \frac{1}{7}$
- c) $\frac{9}{10} : \frac{4}{5} = \frac{9}{10} \cdot \frac{5}{4} = \frac{9 \cdot 1}{2 \cdot 4} = 1 \frac{1}{8}$ d) $\frac{5}{18} : \frac{5}{9} = \frac{5}{18} \cdot \frac{9}{5} = \frac{1 \cdot 1}{2 \cdot 1} = \frac{1}{2}$