

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

① a) $\frac{2}{45} : \frac{1}{45} =$

b) $\frac{3}{16} : \frac{3}{10} =$

c) $\frac{10}{11} : \frac{5}{9} =$

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

② a) $\frac{3}{8} : \frac{11}{18} =$

b) $\frac{3}{40} : \frac{1}{14} =$

c) $\frac{5}{6} : \frac{5}{17} =$

d) $\frac{2}{11} : \frac{6}{29} =$

③ a) $\frac{17}{42} : \frac{1}{3} =$

b) $\frac{1}{12} : \frac{3}{38} =$

c) $\frac{2}{9} : \frac{11}{36} =$

d) $\frac{1}{4} : \frac{25}{32} =$

④ a) $\frac{19}{35} : \frac{2}{5} =$

b) $\frac{1}{2} : \frac{3}{34} =$

c) $\frac{4}{9} : \frac{4}{7} =$

d) $\frac{3}{16} : \frac{5}{26} =$

⑤ a) $\frac{4}{27} : \frac{2}{21} =$

b) $\frac{5}{6} : \frac{1}{3} =$

c) $\frac{10}{19} : \frac{5}{8} =$

d) $\frac{17}{30} : \frac{2}{5} =$

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

- ① a) $\frac{2}{45} : \frac{1}{45} = \frac{2}{45} \cdot \frac{45}{1} = \frac{2 \cdot 1}{1 \cdot 1} = 2$ b) $\frac{3}{16} : \frac{3}{10} = \frac{3}{16} \cdot \frac{10}{3} = \frac{1 \cdot 5}{8 \cdot 1} = \frac{5}{8}$
- c) $\frac{10}{11} : \frac{5}{9} = \frac{10}{11} \cdot \frac{9}{5} = \frac{2 \cdot 9}{11 \cdot 1} = 1 \frac{7}{11}$ d) $\frac{4}{7} : \frac{2}{7} = \frac{4}{7} \cdot \frac{7}{2} = \frac{2 \cdot 1}{1 \cdot 1} = 2$
- ② a) $\frac{3}{8} : \frac{11}{18} = \frac{3}{8} \cdot \frac{18}{11} = \frac{3 \cdot 9}{4 \cdot 11} = \frac{27}{44}$ b) $\frac{3}{40} : \frac{1}{14} = \frac{3}{40} \cdot \frac{14}{1} = \frac{3 \cdot 7}{20 \cdot 1} = 1 \frac{1}{20}$
- c) $\frac{5}{6} : \frac{5}{17} = \frac{5}{6} \cdot \frac{17}{5} = \frac{1 \cdot 17}{6 \cdot 1} = 2 \frac{5}{6}$ d) $\frac{2}{11} : \frac{6}{29} = \frac{2}{11} \cdot \frac{29}{6} = \frac{1 \cdot 29}{11 \cdot 3} = \frac{29}{33}$
- ③ a) $\frac{17}{42} : \frac{1}{3} = \frac{17}{42} \cdot \frac{3}{1} = \frac{17 \cdot 1}{14 \cdot 1} = 1 \frac{3}{14}$ b) $\frac{1}{12} : \frac{3}{38} = \frac{1}{12} \cdot \frac{38}{3} = \frac{1 \cdot 19}{6 \cdot 3} = 1 \frac{1}{18}$
- c) $\frac{2}{9} : \frac{11}{36} = \frac{2}{9} \cdot \frac{36}{11} = \frac{2 \cdot 4}{1 \cdot 11} = \frac{8}{11}$ d) $\frac{1}{4} : \frac{25}{32} = \frac{1}{4} \cdot \frac{32}{25} = \frac{1 \cdot 8}{1 \cdot 25} = \frac{8}{25}$
- ④ a) $\frac{19}{35} : \frac{2}{5} = \frac{19}{35} \cdot \frac{5}{2} = \frac{19 \cdot 1}{7 \cdot 2} = 1 \frac{5}{14}$ b) $\frac{1}{2} : \frac{3}{34} = \frac{1}{2} \cdot \frac{34}{3} = \frac{1 \cdot 17}{1 \cdot 3} = 5 \frac{2}{3}$
- c) $\frac{4}{9} : \frac{4}{7} = \frac{4}{9} \cdot \frac{7}{4} = \frac{1 \cdot 7}{9 \cdot 1} = \frac{7}{9}$ d) $\frac{3}{16} : \frac{5}{26} = \frac{3}{16} \cdot \frac{26}{5} = \frac{3 \cdot 13}{8 \cdot 5} = \frac{39}{40}$
- ⑤ a) $\frac{4}{27} : \frac{2}{21} = \frac{4}{27} \cdot \frac{21}{2} = \frac{2 \cdot 7}{9 \cdot 1} = 1 \frac{5}{9}$ b) $\frac{5}{6} : \frac{1}{3} = \frac{5}{6} \cdot \frac{3}{1} = \frac{5 \cdot 1}{2 \cdot 1} = 2 \frac{1}{2}$
- c) $\frac{10}{19} : \frac{5}{8} = \frac{10}{19} \cdot \frac{8}{5} = \frac{2 \cdot 8}{19 \cdot 1} = \frac{16}{19}$ d) $\frac{17}{30} : \frac{2}{5} = \frac{17}{30} \cdot \frac{5}{2} = \frac{17 \cdot 1}{6 \cdot 2} = 1 \frac{5}{12}$