

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

① a) $\frac{5}{12} : \frac{3}{20} =$

b) $\frac{2}{3} : \frac{1}{33} =$

c) $\frac{2}{13} : \frac{7}{39} =$

d) $\frac{1}{5} : \frac{4}{25} =$

② a) $\frac{1}{44} : \frac{1}{44} =$

b) $\frac{1}{4} : \frac{23}{32} =$

c) $\frac{2}{35} : \frac{2}{19} =$

d) $\frac{11}{21} : \frac{1}{3} =$

③ a) $\frac{4}{5} : \frac{16}{25} =$

b) $\frac{1}{10} : \frac{7}{26} =$

c) $\frac{4}{35} : \frac{1}{15} =$

d) $\frac{3}{4} : \frac{12}{17} =$

④ a) $\frac{1}{2} : \frac{29}{38} =$

b) $\frac{1}{27} : \frac{1}{21} =$

c) $\frac{1}{12} : \frac{3}{40} =$

d) $\frac{2}{33} : \frac{2}{45} =$

⑤ a) $\frac{2}{15} : \frac{4}{19} =$

b) $\frac{1}{4} : \frac{11}{32} =$

c) $\frac{4}{11} : \frac{6}{25} =$

d) $\frac{3}{38} : \frac{1}{18} =$

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

- ① a) $\frac{5}{12} : \frac{3}{20} = \frac{5}{12} \cdot \frac{20}{3} = \frac{5 \cdot 5}{3 \cdot 3} = 2 \frac{7}{9}$ b) $\frac{2}{3} : \frac{1}{33} = \frac{2}{3} \cdot \frac{33}{1} = \frac{2 \cdot 11}{1 \cdot 1} = 22$
- c) $\frac{2}{13} : \frac{7}{39} = \frac{2}{13} \cdot \frac{39}{7} = \frac{2 \cdot 3}{1 \cdot 7} = \frac{6}{7}$ d) $\frac{1}{5} : \frac{4}{25} = \frac{1}{5} \cdot \frac{25}{4} = \frac{1 \cdot 5}{1 \cdot 4} = 1 \frac{1}{4}$
- ② a) $\frac{1}{44} : \frac{1}{44} = \frac{1}{44} \cdot \frac{44}{1} = \frac{1 \cdot 1}{1 \cdot 1} = 1$ b) $\frac{1}{4} : \frac{23}{32} = \frac{1}{4} \cdot \frac{32}{23} = \frac{1 \cdot 8}{1 \cdot 23} = \frac{8}{23}$
- c) $\frac{2}{35} : \frac{2}{19} = \frac{2}{35} \cdot \frac{19}{2} = \frac{1 \cdot 19}{35 \cdot 1} = \frac{19}{35}$ d) $\frac{11}{21} : \frac{1}{3} = \frac{11}{21} \cdot \frac{3}{1} = \frac{11 \cdot 1}{7 \cdot 1} = 1 \frac{4}{7}$
- ③ a) $\frac{4}{5} : \frac{16}{25} = \frac{4}{5} \cdot \frac{25}{16} = \frac{1 \cdot 5}{1 \cdot 4} = 1 \frac{1}{4}$ b) $\frac{1}{10} : \frac{7}{26} = \frac{1}{10} \cdot \frac{26}{7} = \frac{1 \cdot 13}{5 \cdot 7} = \frac{13}{35}$
- c) $\frac{4}{35} : \frac{1}{15} = \frac{4}{35} \cdot \frac{15}{1} = \frac{4 \cdot 3}{7 \cdot 1} = 1 \frac{5}{7}$ d) $\frac{3}{4} : \frac{12}{17} = \frac{3}{4} \cdot \frac{17}{12} = \frac{1 \cdot 17}{4 \cdot 4} = 1 \frac{1}{16}$
- ④ a) $\frac{1}{2} : \frac{29}{38} = \frac{1}{2} \cdot \frac{38}{29} = \frac{1 \cdot 19}{1 \cdot 29} = \frac{19}{29}$ b) $\frac{1}{27} : \frac{1}{21} = \frac{1}{27} \cdot \frac{21}{1} = \frac{1 \cdot 7}{9 \cdot 1} = \frac{7}{9}$
- c) $\frac{1}{12} : \frac{3}{40} = \frac{1}{12} \cdot \frac{40}{3} = \frac{1 \cdot 10}{3 \cdot 3} = 1 \frac{1}{9}$ d) $\frac{2}{33} : \frac{2}{45} = \frac{2}{33} \cdot \frac{45}{2} = \frac{1 \cdot 15}{11 \cdot 1} = 1 \frac{4}{11}$
- ⑤ a) $\frac{2}{15} : \frac{4}{19} = \frac{2}{15} \cdot \frac{19}{4} = \frac{1 \cdot 19}{15 \cdot 2} = \frac{19}{30}$ b) $\frac{1}{4} : \frac{11}{32} = \frac{1}{4} \cdot \frac{32}{11} = \frac{1 \cdot 8}{1 \cdot 11} = \frac{8}{11}$
- c) $\frac{4}{11} : \frac{6}{25} = \frac{4}{11} \cdot \frac{25}{6} = \frac{2 \cdot 25}{11 \cdot 3} = 1 \frac{17}{33}$ d) $\frac{3}{38} : \frac{1}{18} = \frac{3}{38} \cdot \frac{18}{1} = \frac{3 \cdot 9}{19 \cdot 1} = 1 \frac{8}{19}$