

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

① a) $\frac{4}{7} : \frac{2}{19} =$

b) $\frac{1}{25} : \frac{1}{10} =$

c) $\frac{1}{18} : \frac{3}{44} =$

d) $\frac{24}{31} : \frac{2}{3} =$

② a) $\frac{3}{22} : \frac{1}{33} =$

b) $\frac{7}{15} : \frac{3}{5} =$

c) $\frac{2}{25} : \frac{4}{11} =$

d) $\frac{15}{32} : \frac{1}{6} =$

③ a) $\frac{1}{12} : \frac{2}{39} =$

b) $\frac{1}{20} : \frac{5}{42} =$

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

d) $\frac{3}{23} : \frac{3}{31} =$

④ a) $\frac{5}{6} : \frac{9}{14} =$

b) $\frac{14}{39} : \frac{2}{5} =$

c) $\frac{9}{25} : \frac{3}{10} =$

d) $\frac{2}{27} : \frac{1}{15} =$

⑤ a) $\frac{2}{7} : \frac{14}{33} =$

b) $\frac{2}{11} : \frac{2}{39} =$

c) $\frac{17}{35} : \frac{1}{5} =$

d) $\frac{1}{4} : \frac{13}{14} =$

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

- ① a) $\frac{4}{7} : \frac{2}{19} = \frac{4}{7} \cdot \frac{19}{2} = \frac{2 \cdot 19}{7 \cdot 1} = 5 \frac{3}{7}$ b) $\frac{1}{25} : \frac{1}{10} = \frac{1}{25} \cdot \frac{10}{1} = \frac{1 \cdot 2}{5 \cdot 1} = \frac{2}{5}$
- c) $\frac{1}{18} : \frac{3}{44} = \frac{1}{18} \cdot \frac{44}{3} = \frac{1 \cdot 22}{9 \cdot 3} = \frac{22}{27}$ d) $\frac{24}{31} : \frac{2}{3} = \frac{24}{31} \cdot \frac{3}{2} = \frac{12 \cdot 3}{31 \cdot 1} = 1 \frac{5}{31}$
- ② a) $\frac{3}{22} : \frac{1}{33} = \frac{3}{22} \cdot \frac{33}{1} = \frac{3 \cdot 3}{2 \cdot 1} = 4 \frac{1}{2}$ b) $\frac{7}{15} : \frac{3}{5} = \frac{7}{15} \cdot \frac{5}{3} = \frac{7 \cdot 1}{3 \cdot 3} = \frac{7}{9}$
- c) $\frac{2}{25} : \frac{4}{11} = \frac{2}{25} \cdot \frac{11}{4} = \frac{1 \cdot 11}{25 \cdot 2} = \frac{11}{50}$ d) $\frac{15}{32} : \frac{1}{6} = \frac{15}{32} \cdot \frac{6}{1} = \frac{15 \cdot 3}{16 \cdot 1} = 2 \frac{13}{16}$
- ③ a) $\frac{1}{12} : \frac{2}{39} = \frac{1}{12} \cdot \frac{39}{2} = \frac{1 \cdot 13}{4 \cdot 2} = 1 \frac{5}{8}$ b) $\frac{1}{20} : \frac{5}{42} = \frac{1}{20} \cdot \frac{42}{5} = \frac{1 \cdot 21}{10 \cdot 5} = \frac{21}{50}$
- c) $\frac{2}{33} : \frac{1}{3} = \frac{2}{33} \cdot \frac{3}{1} = \frac{2 \cdot 1}{11 \cdot 1} = \frac{2}{11}$ d) $\frac{3}{23} : \frac{3}{31} = \frac{3}{23} \cdot \frac{31}{3} = \frac{1 \cdot 31}{23 \cdot 1} = 1 \frac{8}{23}$
- ④ a) $\frac{5}{6} : \frac{9}{14} = \frac{5}{6} \cdot \frac{14}{9} = \frac{5 \cdot 7}{3 \cdot 9} = 1 \frac{8}{27}$ b) $\frac{14}{39} : \frac{2}{5} = \frac{14}{39} \cdot \frac{5}{2} = \frac{7 \cdot 5}{39 \cdot 1} = \frac{35}{39}$
- c) $\frac{9}{25} : \frac{3}{10} = \frac{9}{25} \cdot \frac{10}{3} = \frac{3 \cdot 2}{5 \cdot 1} = 1 \frac{1}{5}$ d) $\frac{2}{27} : \frac{1}{15} = \frac{2}{27} \cdot \frac{15}{1} = \frac{2 \cdot 5}{9 \cdot 1} = 1 \frac{1}{9}$
- ⑤ a) $\frac{2}{7} : \frac{14}{33} = \frac{2}{7} \cdot \frac{33}{14} = \frac{1 \cdot 33}{7 \cdot 7} = \frac{33}{49}$ b) $\frac{2}{11} : \frac{2}{39} = \frac{2}{11} \cdot \frac{39}{2} = \frac{1 \cdot 39}{11 \cdot 1} = 3 \frac{6}{11}$
- c) $\frac{17}{35} : \frac{1}{5} = \frac{17}{35} \cdot \frac{5}{1} = \frac{17 \cdot 1}{7 \cdot 1} = 2 \frac{3}{7}$ d) $\frac{1}{4} : \frac{13}{14} = \frac{1}{4} \cdot \frac{14}{13} = \frac{1 \cdot 7}{2 \cdot 13} = \frac{7}{26}$