

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

① a) $\frac{2}{7} : \frac{12}{37} =$

b) $\frac{3}{14} : \frac{7}{24} =$

c) $\frac{5}{42} : \frac{1}{15} =$

d) $\frac{2}{39} : \frac{2}{43} =$

② a) $\frac{1}{2} : \frac{13}{22} =$

b) $\frac{3}{20} : \frac{1}{26} =$

c) $\frac{2}{5} : \frac{14}{41} =$

d) $\frac{2}{13} : \frac{6}{35} =$

③ a) $\frac{5}{6} : \frac{1}{8} =$

b) $\frac{2}{25} : \frac{2}{27} =$

c) $\frac{8}{15} : \frac{3}{5} =$

d) $\frac{5}{9} : \frac{7}{9} =$

④ a) $\frac{5}{8} : \frac{5}{17} =$

b) $\frac{5}{21} : \frac{1}{18} =$

c) $\frac{1}{14} : \frac{7}{36} =$

d) $\frac{21}{23} : \frac{3}{4} =$

⑤ a) $\frac{24}{35} : \frac{2}{3} =$

b) $\frac{1}{30} : \frac{1}{9} =$

c) $\frac{3}{20} : \frac{5}{32} =$

d) $\frac{1}{4} : \frac{3}{38} =$

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

- ① a) $\frac{2}{7} : \frac{12}{37} = \frac{2}{7} \cdot \frac{37}{12} = \frac{1 \cdot 37}{7 \cdot 6} = \frac{37}{42}$ b) $\frac{3}{14} : \frac{7}{24} = \frac{3}{14} \cdot \frac{24}{7} = \frac{3 \cdot 12}{7 \cdot 7} = \frac{36}{49}$
- c) $\frac{5}{42} : \frac{1}{15} = \frac{5}{42} \cdot \frac{15}{1} = \frac{5 \cdot 5}{14 \cdot 1} = 1 \frac{11}{14}$ d) $\frac{2}{39} : \frac{2}{43} = \frac{2}{39} \cdot \frac{43}{2} = \frac{1 \cdot 43}{39 \cdot 1} = 1 \frac{4}{39}$
- ② a) $\frac{1}{2} : \frac{13}{22} = \frac{1}{2} \cdot \frac{22}{13} = \frac{1 \cdot 11}{1 \cdot 13} = \frac{11}{13}$ b) $\frac{3}{20} : \frac{1}{26} = \frac{3}{20} \cdot \frac{26}{1} = \frac{3 \cdot 13}{10 \cdot 1} = 3 \frac{9}{10}$
- c) $\frac{2}{5} : \frac{14}{41} = \frac{2}{5} \cdot \frac{41}{14} = \frac{1 \cdot 41}{5 \cdot 7} = 1 \frac{6}{35}$ d) $\frac{2}{13} : \frac{6}{35} = \frac{2}{13} \cdot \frac{35}{6} = \frac{1 \cdot 35}{13 \cdot 3} = \frac{35}{39}$
- ③ a) $\frac{5}{6} : \frac{1}{8} = \frac{5}{6} \cdot \frac{8}{1} = \frac{5 \cdot 4}{3 \cdot 1} = 6 \frac{2}{3}$ b) $\frac{2}{25} : \frac{2}{27} = \frac{2}{25} \cdot \frac{27}{2} = \frac{1 \cdot 27}{25 \cdot 1} = 1 \frac{2}{25}$
- c) $\frac{8}{15} : \frac{3}{5} = \frac{8}{15} \cdot \frac{5}{3} = \frac{8 \cdot 1}{3 \cdot 3} = \frac{8}{9}$ d) $\frac{5}{9} : \frac{7}{9} = \frac{5}{9} \cdot \frac{9}{7} = \frac{5 \cdot 1}{1 \cdot 7} = \frac{5}{7}$
- ④ a) $\frac{5}{8} : \frac{5}{17} = \frac{5}{8} \cdot \frac{17}{5} = \frac{1 \cdot 17}{8 \cdot 1} = 2 \frac{1}{8}$ b) $\frac{5}{21} : \frac{1}{18} = \frac{5}{21} \cdot \frac{18}{1} = \frac{5 \cdot 6}{7 \cdot 1} = 4 \frac{2}{7}$
- c) $\frac{1}{14} : \frac{7}{36} = \frac{1}{14} \cdot \frac{36}{7} = \frac{1 \cdot 18}{7 \cdot 7} = \frac{18}{49}$ d) $\frac{21}{23} : \frac{3}{4} = \frac{21}{23} \cdot \frac{4}{3} = \frac{7 \cdot 4}{23 \cdot 1} = 1 \frac{5}{23}$
- ⑤ a) $\frac{24}{35} : \frac{2}{3} = \frac{24}{35} \cdot \frac{3}{2} = \frac{12 \cdot 3}{35 \cdot 1} = 1 \frac{1}{35}$ b) $\frac{1}{30} : \frac{1}{9} = \frac{1}{30} \cdot \frac{9}{1} = \frac{1 \cdot 3}{10 \cdot 1} = \frac{3}{10}$
- c) $\frac{3}{20} : \frac{5}{32} = \frac{3}{20} \cdot \frac{32}{5} = \frac{3 \cdot 8}{5 \cdot 5} = \frac{24}{25}$ d) $\frac{1}{4} : \frac{3}{38} = \frac{1}{4} \cdot \frac{38}{3} = \frac{1 \cdot 19}{2 \cdot 3} = 3 \frac{1}{6}$