

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

① a) $\frac{8}{37} : \frac{2}{9} =$

b) $\frac{1}{2} : \frac{1}{8} =$

c) $\frac{3}{14} : \frac{6}{31} =$

d) $\frac{2}{7} : \frac{14}{45} =$

② a) $\frac{7}{9} : \frac{7}{11} =$

b) $\frac{9}{38} : \frac{1}{6} =$

c) $\frac{3}{23} : \frac{3}{5} =$

d) $\frac{3}{7} : \frac{2}{21} =$

③ a) $\frac{2}{37} : \frac{1}{37} =$

b) $\frac{1}{2} : \frac{17}{32} =$

c) $\frac{2}{9} : \frac{4}{45} =$

d) $\frac{17}{21} : \frac{1}{3} =$

④ a) $\frac{1}{20} : \frac{5}{16} =$

b) $\frac{7}{22} : \frac{3}{10} =$

c) $\frac{4}{5} : \frac{19}{25} =$

d) $\frac{1}{4} : \frac{5}{12} =$

⑤ a) $\frac{2}{27} : \frac{1}{36} =$

b) $\frac{10}{11} : \frac{2}{3} =$

c) $\frac{1}{10} : \frac{3}{5} =$

d) $\frac{1}{7} : \frac{9}{28} =$

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- ① a) $\frac{8}{37} : \frac{2}{9} = \frac{8}{37} \cdot \frac{9}{2} = \frac{4 \cdot 9}{37 \cdot 1} = \frac{36}{37}$ b) $\frac{1}{2} : \frac{1}{8} = \frac{1}{2} \cdot \frac{8}{1} = \frac{1 \cdot 4}{1 \cdot 1} = 4$
- c) $\frac{3}{14} : \frac{6}{31} = \frac{3}{14} \cdot \frac{31}{6} = \frac{1 \cdot 31}{14 \cdot 2} = 1 \frac{3}{28}$ d) $\frac{2}{7} : \frac{14}{45} = \frac{2}{7} \cdot \frac{45}{14} = \frac{1 \cdot 45}{7 \cdot 7} = \frac{45}{49}$
- ② a) $\frac{7}{9} : \frac{7}{11} = \frac{7}{9} \cdot \frac{11}{7} = \frac{1 \cdot 11}{9 \cdot 1} = 1 \frac{2}{9}$ b) $\frac{9}{38} : \frac{1}{6} = \frac{9}{38} \cdot \frac{6}{1} = \frac{9 \cdot 3}{19 \cdot 1} = 1 \frac{8}{19}$
- c) $\frac{3}{23} : \frac{3}{5} = \frac{3}{23} \cdot \frac{5}{3} = \frac{1 \cdot 5}{23 \cdot 1} = \frac{5}{23}$ d) $\frac{3}{7} : \frac{2}{21} = \frac{3}{7} \cdot \frac{21}{2} = \frac{3 \cdot 3}{1 \cdot 2} = 4 \frac{1}{2}$
- ③ a) $\frac{2}{37} : \frac{1}{37} = \frac{2}{37} \cdot \frac{37}{1} = \frac{2 \cdot 1}{1 \cdot 1} = 2$ b) $\frac{1}{2} : \frac{17}{32} = \frac{1}{2} \cdot \frac{32}{17} = \frac{1 \cdot 16}{1 \cdot 17} = \frac{16}{17}$
- c) $\frac{2}{9} : \frac{4}{45} = \frac{2}{9} \cdot \frac{45}{4} = \frac{1 \cdot 5}{1 \cdot 2} = 2 \frac{1}{2}$ d) $\frac{17}{21} : \frac{1}{3} = \frac{17}{21} \cdot \frac{3}{1} = \frac{17 \cdot 1}{7 \cdot 1} = 2 \frac{3}{7}$
- ④ a) $\frac{1}{20} : \frac{5}{16} = \frac{1}{20} \cdot \frac{16}{5} = \frac{1 \cdot 4}{5 \cdot 5} = \frac{4}{25}$ b) $\frac{7}{22} : \frac{3}{10} = \frac{7}{22} \cdot \frac{10}{3} = \frac{7 \cdot 5}{11 \cdot 3} = 1 \frac{2}{33}$
- c) $\frac{4}{5} : \frac{19}{25} = \frac{4}{5} \cdot \frac{25}{19} = \frac{4 \cdot 5}{1 \cdot 19} = 1 \frac{1}{19}$ d) $\frac{1}{4} : \frac{5}{12} = \frac{1}{4} \cdot \frac{12}{5} = \frac{1 \cdot 3}{1 \cdot 5} = \frac{3}{5}$
- ⑤ a) $\frac{2}{27} : \frac{1}{36} = \frac{2}{27} \cdot \frac{36}{1} = \frac{2 \cdot 4}{3 \cdot 1} = 2 \frac{2}{3}$ b) $\frac{10}{11} : \frac{2}{3} = \frac{10}{11} \cdot \frac{3}{2} = \frac{5 \cdot 3}{11 \cdot 1} = 1 \frac{4}{11}$
- c) $\frac{1}{10} : \frac{3}{5} = \frac{1}{10} \cdot \frac{5}{3} = \frac{1 \cdot 1}{2 \cdot 3} = \frac{1}{6}$ d) $\frac{1}{7} : \frac{9}{28} = \frac{1}{7} \cdot \frac{28}{9} = \frac{1 \cdot 4}{1 \cdot 9} = \frac{4}{9}$