

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

① a) $\frac{2}{11} : \frac{6}{37} =$

b) $\frac{1}{18} : \frac{3}{8} =$

c) $\frac{1}{6} : \frac{1}{34} =$

d) $\frac{3}{10} : \frac{5}{32} =$

② a) $\frac{9}{20} : \frac{4}{5} =$

b) $\frac{3}{22} : \frac{1}{30} =$

c) $\frac{5}{17} : \frac{2}{17} =$

d) $\frac{4}{33} : \frac{3}{11} =$

③ a) $\frac{11}{12} : \frac{5}{6} =$

b) $\frac{29}{39} : \frac{1}{3} =$

c) $\frac{2}{9} : \frac{11}{27} =$

d) $\frac{3}{25} : \frac{3}{4} =$

④ a) $\frac{5}{7} : \frac{2}{7} =$

b) $\frac{17}{30} : \frac{1}{2} =$

c) $\frac{1}{17} : \frac{3}{34} =$

d) $\frac{2}{3} : \frac{25}{42} =$

⑤ a) $\frac{14}{33} : \frac{2}{5} =$

b) $\frac{1}{22} : \frac{3}{10} =$

c) $\frac{5}{9} : \frac{8}{9} =$

d) $\frac{2}{7} : \frac{4}{25} =$

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

- ① a) $\frac{2}{11} : \frac{6}{37} = \frac{2}{11} \cdot \frac{37}{6} = \frac{1 \cdot 37}{11 \cdot 3} = 1 \frac{4}{33}$ b) $\frac{1}{18} : \frac{3}{8} = \frac{1}{18} \cdot \frac{8}{3} = \frac{1 \cdot 4}{9 \cdot 3} = \frac{4}{27}$
- c) $\frac{1}{6} : \frac{1}{34} = \frac{1}{6} \cdot \frac{34}{1} = \frac{1 \cdot 17}{3 \cdot 1} = 5 \frac{2}{3}$ d) $\frac{3}{10} : \frac{5}{32} = \frac{3}{10} \cdot \frac{32}{5} = \frac{3 \cdot 16}{5 \cdot 5} = 1 \frac{23}{25}$
- ② a) $\frac{9}{20} : \frac{4}{5} = \frac{9}{20} \cdot \frac{5}{4} = \frac{9 \cdot 1}{4 \cdot 4} = \frac{9}{16}$ b) $\frac{3}{22} : \frac{1}{30} = \frac{3}{22} \cdot \frac{30}{1} = \frac{3 \cdot 15}{11 \cdot 1} = 4 \frac{1}{11}$
- c) $\frac{5}{17} : \frac{2}{17} = \frac{5}{17} \cdot \frac{17}{2} = \frac{5 \cdot 1}{1 \cdot 2} = 2 \frac{1}{2}$ d) $\frac{4}{33} : \frac{3}{11} = \frac{4}{33} \cdot \frac{11}{3} = \frac{4 \cdot 1}{3 \cdot 3} = \frac{4}{9}$
- ③ a) $\frac{11}{12} : \frac{5}{6} = \frac{11}{12} \cdot \frac{6}{5} = \frac{11 \cdot 1}{2 \cdot 5} = 1 \frac{1}{10}$ b) $\frac{29}{39} : \frac{1}{3} = \frac{29}{39} \cdot \frac{3}{1} = \frac{29 \cdot 1}{13 \cdot 1} = 2 \frac{3}{13}$
- c) $\frac{2}{9} : \frac{11}{27} = \frac{2}{9} \cdot \frac{27}{11} = \frac{2 \cdot 3}{1 \cdot 11} = \frac{6}{11}$ d) $\frac{3}{25} : \frac{3}{4} = \frac{3}{25} \cdot \frac{4}{3} = \frac{1 \cdot 4}{25 \cdot 1} = \frac{4}{25}$
- ④ a) $\frac{5}{7} : \frac{2}{7} = \frac{5}{7} \cdot \frac{7}{2} = \frac{5 \cdot 1}{1 \cdot 2} = 2 \frac{1}{2}$ b) $\frac{17}{30} : \frac{1}{2} = \frac{17}{30} \cdot \frac{2}{1} = \frac{17 \cdot 1}{15 \cdot 1} = 1 \frac{2}{15}$
- c) $\frac{1}{17} : \frac{3}{34} = \frac{1}{17} \cdot \frac{34}{3} = \frac{1 \cdot 2}{1 \cdot 3} = \frac{2}{3}$ d) $\frac{2}{3} : \frac{25}{42} = \frac{2}{3} \cdot \frac{42}{25} = \frac{2 \cdot 14}{1 \cdot 25} = 1 \frac{3}{25}$
- ⑤ a) $\frac{14}{33} : \frac{2}{5} = \frac{14}{33} \cdot \frac{5}{2} = \frac{7 \cdot 5}{33 \cdot 1} = 1 \frac{2}{33}$ b) $\frac{1}{22} : \frac{3}{10} = \frac{1}{22} \cdot \frac{10}{3} = \frac{1 \cdot 5}{11 \cdot 3} = \frac{5}{33}$
- c) $\frac{5}{9} : \frac{8}{9} = \frac{5}{9} \cdot \frac{9}{8} = \frac{5 \cdot 1}{1 \cdot 8} = \frac{5}{8}$ d) $\frac{2}{7} : \frac{4}{25} = \frac{2}{7} \cdot \frac{25}{4} = \frac{1 \cdot 25}{7 \cdot 2} = 1 \frac{11}{14}$