

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

① a) $\frac{6}{13} : \frac{4}{7} =$

b) $\frac{1}{30} : \frac{1}{4} =$

c) $\frac{4}{5} : \frac{8}{11} =$

d) $\frac{7}{8} : \frac{7}{10} =$

② a) $\frac{2}{21} : \frac{2}{9} =$

b) $\frac{3}{4} : \frac{1}{6} =$

c) $\frac{2}{13} : \frac{5}{39} =$

d) $\frac{1}{32} : \frac{3}{44} =$

③ a) $\frac{6}{29} : \frac{2}{3} =$

b) $\frac{1}{24} : \frac{1}{34} =$

c) $\frac{12}{17} : \frac{4}{7} =$

d) $\frac{3}{5} : \frac{12}{13} =$

④ a) $\frac{1}{9} : \frac{10}{33} =$

b) $\frac{1}{6} : \frac{3}{40} =$

c) $\frac{4}{15} : \frac{4}{25} =$

d) $\frac{1}{18} : \frac{5}{22} =$

⑤ a) $\frac{6}{11} : \frac{2}{9} =$

b) $\frac{1}{24} : \frac{1}{45} =$

c) $\frac{1}{13} : \frac{5}{26} =$

d) $\frac{1}{2} : \frac{3}{28} =$

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

- ① a) $\frac{6}{13} : \frac{4}{7} = \frac{6}{13} \cdot \frac{7}{4} = \frac{3 \cdot 7}{13 \cdot 2} = \frac{21}{26}$ b) $\frac{1}{30} : \frac{1}{4} = \frac{1}{30} \cdot \frac{4}{1} = \frac{1 \cdot 2}{15 \cdot 1} = \frac{2}{15}$
- c) $\frac{4}{5} : \frac{8}{11} = \frac{4}{5} \cdot \frac{11}{8} = \frac{1 \cdot 11}{5 \cdot 2} = 1 \frac{1}{10}$ d) $\frac{7}{8} : \frac{7}{10} = \frac{7}{8} \cdot \frac{10}{7} = \frac{1 \cdot 5}{4 \cdot 1} = 1 \frac{1}{4}$
- ② a) $\frac{2}{21} : \frac{2}{9} = \frac{2}{21} \cdot \frac{9}{2} = \frac{1 \cdot 3}{7 \cdot 1} = \frac{3}{7}$ b) $\frac{3}{4} : \frac{1}{6} = \frac{3}{4} \cdot \frac{6}{1} = \frac{3 \cdot 3}{2 \cdot 1} = 4 \frac{1}{2}$
- c) $\frac{2}{13} : \frac{5}{39} = \frac{2}{13} \cdot \frac{39}{5} = \frac{2 \cdot 3}{1 \cdot 5} = 1 \frac{1}{5}$ d) $\frac{1}{32} : \frac{3}{44} = \frac{1}{32} \cdot \frac{44}{3} = \frac{1 \cdot 11}{8 \cdot 3} = \frac{11}{24}$
- ③ a) $\frac{6}{29} : \frac{2}{3} = \frac{6}{29} \cdot \frac{3}{2} = \frac{3 \cdot 3}{29 \cdot 1} = \frac{9}{29}$ b) $\frac{1}{24} : \frac{1}{34} = \frac{1}{24} \cdot \frac{34}{1} = \frac{1 \cdot 17}{12 \cdot 1} = 1 \frac{5}{12}$
- c) $\frac{12}{17} : \frac{4}{7} = \frac{12}{17} \cdot \frac{7}{4} = \frac{3 \cdot 7}{17 \cdot 1} = 1 \frac{4}{17}$ d) $\frac{3}{5} : \frac{12}{13} = \frac{3}{5} \cdot \frac{13}{12} = \frac{1 \cdot 13}{5 \cdot 4} = \frac{13}{20}$
- ④ a) $\frac{1}{9} : \frac{10}{33} = \frac{1}{9} \cdot \frac{33}{10} = \frac{1 \cdot 11}{3 \cdot 10} = \frac{11}{30}$ b) $\frac{1}{6} : \frac{3}{40} = \frac{1}{6} \cdot \frac{40}{3} = \frac{1 \cdot 20}{3 \cdot 3} = 2 \frac{2}{9}$
- c) $\frac{4}{15} : \frac{4}{25} = \frac{4}{15} \cdot \frac{25}{4} = \frac{1 \cdot 5}{3 \cdot 1} = 1 \frac{2}{3}$ d) $\frac{1}{18} : \frac{5}{22} = \frac{1}{18} \cdot \frac{22}{5} = \frac{1 \cdot 11}{9 \cdot 5} = \frac{11}{45}$
- ⑤ a) $\frac{6}{11} : \frac{2}{9} = \frac{6}{11} \cdot \frac{9}{2} = \frac{3 \cdot 9}{11 \cdot 1} = 2 \frac{5}{11}$ b) $\frac{1}{24} : \frac{1}{45} = \frac{1}{24} \cdot \frac{45}{1} = \frac{1 \cdot 15}{8 \cdot 1} = 1 \frac{7}{8}$
- c) $\frac{1}{13} : \frac{5}{26} = \frac{1}{13} \cdot \frac{26}{5} = \frac{1 \cdot 2}{1 \cdot 5} = \frac{2}{5}$ d) $\frac{1}{2} : \frac{3}{28} = \frac{1}{2} \cdot \frac{28}{3} = \frac{1 \cdot 14}{1 \cdot 3} = 4 \frac{2}{3}$