

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

① a) $\frac{7}{32} : \frac{3}{4} =$

b) $\frac{3}{14} : \frac{5}{14} =$

c) $\frac{2}{31} : \frac{1}{31} =$

d) $\frac{6}{17} : \frac{3}{13} =$

② a) $\frac{1}{7} : \frac{8}{21} =$

b) $\frac{1}{15} : \frac{1}{18} =$

c) $\frac{1}{2} : \frac{7}{26} =$

d) $\frac{10}{13} : \frac{5}{6} =$

③ a) $\frac{1}{5} : \frac{13}{45} =$

b) $\frac{9}{14} : \frac{3}{8} =$

c) $\frac{17}{24} : \frac{1}{4} =$

d) $\frac{1}{25} : \frac{2}{15} =$

④ a) $\frac{1}{12} : \frac{7}{40} =$

b) $\frac{1}{14} : \frac{1}{30} =$

c) $\frac{1}{2} : \frac{3}{34} =$

d) $\frac{2}{13} : \frac{7}{13} =$

⑤ a) $\frac{8}{9} : \frac{4}{9} =$

b) $\frac{7}{44} : \frac{1}{10} =$

c) $\frac{12}{25} : \frac{3}{5} =$

d) $\frac{2}{3} : \frac{13}{18} =$

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

- ① a) $\frac{7}{32} : \frac{3}{4} = \frac{7}{32} \cdot \frac{4}{3} = \frac{7 \cdot 1}{8 \cdot 3} = \frac{7}{24}$ b) $\frac{3}{14} : \frac{5}{14} = \frac{3}{14} \cdot \frac{14}{5} = \frac{3 \cdot 1}{1 \cdot 5} = \frac{3}{5}$
- c) $\frac{2}{31} : \frac{1}{31} = \frac{2}{31} \cdot \frac{31}{1} = \frac{2 \cdot 1}{1 \cdot 1} = 2$ d) $\frac{6}{17} : \frac{3}{13} = \frac{6}{17} \cdot \frac{13}{3} = \frac{2 \cdot 13}{17 \cdot 1} = 1 \frac{9}{17}$
- ② a) $\frac{1}{7} : \frac{8}{21} = \frac{1}{7} \cdot \frac{21}{8} = \frac{1 \cdot 3}{1 \cdot 8} = \frac{3}{8}$ b) $\frac{1}{15} : \frac{1}{18} = \frac{1}{15} \cdot \frac{18}{1} = \frac{1 \cdot 6}{5 \cdot 1} = 1 \frac{1}{5}$
- c) $\frac{1}{2} : \frac{7}{26} = \frac{1}{2} \cdot \frac{26}{7} = \frac{1 \cdot 13}{1 \cdot 7} = 1 \frac{6}{7}$ d) $\frac{10}{13} : \frac{5}{6} = \frac{10}{13} \cdot \frac{6}{5} = \frac{2 \cdot 6}{13 \cdot 1} = \frac{12}{13}$
- ③ a) $\frac{1}{5} : \frac{13}{45} = \frac{1}{5} \cdot \frac{45}{13} = \frac{1 \cdot 9}{1 \cdot 13} = \frac{9}{13}$ b) $\frac{9}{14} : \frac{3}{8} = \frac{9}{14} \cdot \frac{8}{3} = \frac{3 \cdot 4}{7 \cdot 1} = 1 \frac{5}{7}$
- c) $\frac{17}{24} : \frac{1}{4} = \frac{17}{24} \cdot \frac{4}{1} = \frac{17 \cdot 1}{6 \cdot 1} = 2 \frac{5}{6}$ d) $\frac{1}{25} : \frac{2}{15} = \frac{1}{25} \cdot \frac{15}{2} = \frac{1 \cdot 3}{5 \cdot 2} = \frac{3}{10}$
- ④ a) $\frac{1}{12} : \frac{7}{40} = \frac{1}{12} \cdot \frac{40}{7} = \frac{1 \cdot 10}{3 \cdot 7} = \frac{10}{21}$ b) $\frac{1}{14} : \frac{1}{30} = \frac{1}{14} \cdot \frac{30}{1} = \frac{1 \cdot 15}{7 \cdot 1} = 2 \frac{1}{7}$
- c) $\frac{1}{2} : \frac{3}{34} = \frac{1}{2} \cdot \frac{34}{3} = \frac{1 \cdot 17}{1 \cdot 3} = 5 \frac{2}{3}$ d) $\frac{2}{13} : \frac{7}{13} = \frac{2}{13} \cdot \frac{13}{7} = \frac{2 \cdot 1}{1 \cdot 7} = \frac{2}{7}$
- ⑤ a) $\frac{8}{9} : \frac{4}{9} = \frac{8}{9} \cdot \frac{9}{4} = \frac{2 \cdot 1}{1 \cdot 1} = 2$ b) $\frac{7}{44} : \frac{1}{10} = \frac{7}{44} \cdot \frac{10}{1} = \frac{7 \cdot 5}{22 \cdot 1} = 1 \frac{13}{22}$
- c) $\frac{12}{25} : \frac{3}{5} = \frac{12}{25} \cdot \frac{5}{3} = \frac{4 \cdot 1}{5 \cdot 1} = \frac{4}{5}$ d) $\frac{2}{3} : \frac{13}{18} = \frac{2}{3} \cdot \frac{18}{13} = \frac{2 \cdot 6}{1 \cdot 13} = \frac{12}{13}$