

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

① a) $\frac{3}{5} : \frac{9}{14} =$

b) $\frac{2}{3} : \frac{30}{41} =$

c) $\frac{2}{33} : \frac{1}{44} =$

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

② a) $\frac{3}{10} : \frac{7}{15} =$

b) $\frac{11}{21} : \frac{1}{6} =$

c) $\frac{2}{35} : \frac{2}{45} =$

d) $\frac{2}{7} : \frac{12}{29} =$

③ a) $\frac{3}{16} : \frac{3}{4} =$

b) $\frac{4}{11} : \frac{2}{17} =$

c) $\frac{3}{5} : \frac{13}{25} =$

d) $\frac{2}{3} : \frac{26}{31} =$

④ a) $\frac{2}{21} : \frac{4}{19} =$

b) $\frac{2}{15} : \frac{5}{39} =$

c) $\frac{3}{20} : \frac{3}{22} =$

d) $\frac{3}{32} : \frac{1}{6} =$

⑤ a) $\frac{2}{23} : \frac{2}{11} =$

b) $\frac{3}{7} : \frac{6}{17} =$

c) $\frac{11}{24} : \frac{1}{4} =$

d) $\frac{5}{9} : \frac{11}{15} =$

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

- ① a) $\frac{3}{5} : \frac{9}{14} = \frac{3}{5} \cdot \frac{14}{9} = \frac{1 \cdot 14}{5 \cdot 3} = \frac{14}{15}$ b) $\frac{2}{3} : \frac{30}{41} = \frac{2}{3} \cdot \frac{41}{30} = \frac{1 \cdot 41}{3 \cdot 15} = \frac{41}{45}$
- c) $\frac{2}{33} : \frac{1}{44} = \frac{2}{33} \cdot \frac{44}{1} = \frac{2 \cdot 4}{3 \cdot 1} = 2 \frac{2}{3}$ d) $\frac{12}{17} : \frac{4}{7} = \frac{12}{17} \cdot \frac{7}{4} = \frac{3 \cdot 7}{17 \cdot 1} = 1 \frac{4}{17}$
- ② a) $\frac{3}{10} : \frac{7}{15} = \frac{3}{10} \cdot \frac{15}{7} = \frac{3 \cdot 3}{2 \cdot 7} = \frac{9}{14}$ b) $\frac{11}{21} : \frac{1}{6} = \frac{11}{21} \cdot \frac{6}{1} = \frac{11 \cdot 2}{7 \cdot 1} = 3 \frac{1}{7}$
- c) $\frac{2}{35} : \frac{2}{45} = \frac{2}{35} \cdot \frac{45}{2} = \frac{1 \cdot 9}{7 \cdot 1} = 1 \frac{2}{7}$ d) $\frac{2}{7} : \frac{12}{29} = \frac{2}{7} \cdot \frac{29}{12} = \frac{1 \cdot 29}{7 \cdot 6} = \frac{29}{42}$
- ③ a) $\frac{3}{16} : \frac{3}{4} = \frac{3}{16} \cdot \frac{4}{3} = \frac{1 \cdot 1}{4 \cdot 1} = \frac{1}{4}$ b) $\frac{4}{11} : \frac{2}{17} = \frac{4}{11} \cdot \frac{17}{2} = \frac{2 \cdot 17}{11 \cdot 1} = 3 \frac{1}{11}$
- c) $\frac{3}{5} : \frac{13}{25} = \frac{3}{5} \cdot \frac{25}{13} = \frac{3 \cdot 5}{1 \cdot 13} = 1 \frac{2}{13}$ d) $\frac{2}{3} : \frac{26}{31} = \frac{2}{3} \cdot \frac{31}{26} = \frac{1 \cdot 31}{3 \cdot 13} = \frac{31}{39}$
- ④ a) $\frac{2}{21} : \frac{4}{19} = \frac{2}{21} \cdot \frac{19}{4} = \frac{1 \cdot 19}{21 \cdot 2} = \frac{19}{42}$ b) $\frac{2}{15} : \frac{5}{39} = \frac{2}{15} \cdot \frac{39}{5} = \frac{2 \cdot 13}{5 \cdot 5} = 1 \frac{1}{25}$
- c) $\frac{3}{20} : \frac{3}{22} = \frac{3}{20} \cdot \frac{22}{3} = \frac{1 \cdot 11}{10 \cdot 1} = 1 \frac{1}{10}$ d) $\frac{3}{32} : \frac{1}{6} = \frac{3}{32} \cdot \frac{6}{1} = \frac{3 \cdot 3}{16 \cdot 1} = \frac{9}{16}$
- ⑤ a) $\frac{2}{23} : \frac{2}{11} = \frac{2}{23} \cdot \frac{11}{2} = \frac{1 \cdot 11}{23 \cdot 1} = \frac{11}{23}$ b) $\frac{3}{7} : \frac{6}{17} = \frac{3}{7} \cdot \frac{17}{6} = \frac{1 \cdot 17}{7 \cdot 2} = 1 \frac{3}{14}$
- c) $\frac{11}{24} : \frac{1}{4} = \frac{11}{24} \cdot \frac{4}{1} = \frac{11 \cdot 1}{6 \cdot 1} = 1 \frac{5}{6}$ d) $\frac{5}{9} : \frac{11}{15} = \frac{5}{9} \cdot \frac{15}{11} = \frac{5 \cdot 5}{3 \cdot 11} = \frac{25}{33}$