

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

① a)  $\frac{10}{27} : \frac{2}{3} =$

b)  $\frac{2}{9} : \frac{11}{12} =$

c)  $\frac{15}{26} : \frac{1}{2} =$

d)  $\frac{4}{13} : \frac{4}{19} =$

② a)  $\frac{1}{20} : \frac{5}{22} =$

b)  $\frac{3}{8} : \frac{7}{30} =$

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

d)  $\frac{2}{3} : \frac{24}{29} =$

③ a)  $\frac{4}{11} : \frac{4}{21} =$

b)  $\frac{2}{13} : \frac{6}{41} =$

c)  $\frac{5}{18} : \frac{5}{9} =$

d)  $\frac{13}{44} : \frac{1}{2} =$

④ a)  $\frac{11}{15} : \frac{3}{5} =$

b)  $\frac{3}{35} : \frac{2}{25} =$

c)  $\frac{2}{23} : \frac{4}{27} =$

d)  $\frac{1}{20} : \frac{3}{40} =$

⑤ a)  $\frac{4}{5} : \frac{10}{21} =$

b)  $\frac{19}{36} : \frac{1}{3} =$

c)  $\frac{1}{12} : \frac{2}{15} =$

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

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

- ① a)  $\frac{10}{27} : \frac{2}{3} = \frac{10}{27} \cdot \frac{3}{2} = \frac{5 \cdot 1}{9 \cdot 1} = \frac{5}{9}$       b)  $\frac{2}{9} : \frac{11}{12} = \frac{2}{9} \cdot \frac{12}{11} = \frac{2 \cdot 4}{3 \cdot 11} = \frac{8}{33}$
- c)  $\frac{15}{26} : \frac{1}{2} = \frac{15}{26} \cdot \frac{2}{1} = \frac{15 \cdot 1}{13 \cdot 1} = 1 \frac{2}{13}$       d)  $\frac{4}{13} : \frac{4}{19} = \frac{4}{13} \cdot \frac{19}{4} = \frac{1 \cdot 19}{13 \cdot 1} = 1 \frac{6}{13}$
- ② a)  $\frac{1}{20} : \frac{5}{22} = \frac{1}{20} \cdot \frac{22}{5} = \frac{1 \cdot 11}{10 \cdot 5} = \frac{11}{50}$       b)  $\frac{3}{8} : \frac{7}{30} = \frac{3}{8} \cdot \frac{30}{7} = \frac{3 \cdot 15}{4 \cdot 7} = 1 \frac{17}{28}$
- c)  $\frac{3}{10} : \frac{1}{5} = \frac{3}{10} \cdot \frac{5}{1} = \frac{3 \cdot 1}{2 \cdot 1} = 1 \frac{1}{2}$       d)  $\frac{2}{3} : \frac{24}{29} = \frac{2}{3} \cdot \frac{29}{24} = \frac{1 \cdot 29}{3 \cdot 12} = \frac{29}{36}$
- ③ a)  $\frac{4}{11} : \frac{4}{21} = \frac{4}{11} \cdot \frac{21}{4} = \frac{1 \cdot 21}{11 \cdot 1} = 1 \frac{10}{11}$       b)  $\frac{2}{13} : \frac{6}{41} = \frac{2}{13} \cdot \frac{41}{6} = \frac{1 \cdot 41}{13 \cdot 3} = 1 \frac{2}{39}$
- c)  $\frac{5}{18} : \frac{5}{9} = \frac{5}{18} \cdot \frac{9}{5} = \frac{1 \cdot 1}{2 \cdot 1} = \frac{1}{2}$       d)  $\frac{13}{44} : \frac{1}{2} = \frac{13}{44} \cdot \frac{2}{1} = \frac{13 \cdot 1}{22 \cdot 1} = \frac{13}{22}$
- ④ a)  $\frac{11}{15} : \frac{3}{5} = \frac{11}{15} \cdot \frac{5}{3} = \frac{11 \cdot 1}{3 \cdot 3} = 1 \frac{2}{9}$       b)  $\frac{3}{35} : \frac{2}{25} = \frac{3}{35} \cdot \frac{25}{2} = \frac{3 \cdot 5}{7 \cdot 2} = 1 \frac{1}{14}$
- c)  $\frac{2}{23} : \frac{4}{27} = \frac{2}{23} \cdot \frac{27}{4} = \frac{1 \cdot 27}{23 \cdot 2} = \frac{27}{46}$       d)  $\frac{1}{20} : \frac{3}{40} = \frac{1}{20} \cdot \frac{40}{3} = \frac{1 \cdot 2}{1 \cdot 3} = \frac{2}{3}$
- ⑤ a)  $\frac{4}{5} : \frac{10}{21} = \frac{4}{5} \cdot \frac{21}{10} = \frac{2 \cdot 21}{5 \cdot 5} = 1 \frac{17}{25}$       b)  $\frac{19}{36} : \frac{1}{3} = \frac{19}{36} \cdot \frac{3}{1} = \frac{19 \cdot 1}{12 \cdot 1} = 1 \frac{7}{12}$
- c)  $\frac{1}{12} : \frac{2}{15} = \frac{1}{12} \cdot \frac{15}{2} = \frac{1 \cdot 5}{4 \cdot 2} = \frac{5}{8}$       d)  $\frac{6}{17} : \frac{3}{7} = \frac{6}{17} \cdot \frac{7}{3} = \frac{2 \cdot 7}{17 \cdot 1} = \frac{14}{17}$