

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

① a)  $\frac{1}{11} : \frac{1}{11} =$

b)  $\frac{6}{23} : \frac{2}{7} =$

c)  $\frac{2}{25} : \frac{4}{31} =$

d)  $\frac{2}{33} : \frac{1}{33} =$

② a)  $\frac{30}{43} : \frac{2}{3} =$

b)  $\frac{3}{20} : \frac{3}{19} =$

c)  $\frac{1}{2} : \frac{15}{28} =$

d)  $\frac{2}{35} : \frac{2}{37} =$

③ a)  $\frac{3}{11} : \frac{3}{17} =$

b)  $\frac{1}{12} : \frac{5}{42} =$

c)  $\frac{1}{8} : \frac{1}{6} =$

d)  $\frac{8}{21} : \frac{2}{9} =$

④ a)  $\frac{2}{3} : \frac{10}{37} =$

b)  $\frac{7}{13} : \frac{7}{10} =$

c)  $\frac{6}{11} : \frac{3}{16} =$

d)  $\frac{4}{25} : \frac{2}{23} =$

⑤ a)  $\frac{4}{7} : \frac{14}{15} =$

b)  $\frac{13}{22} : \frac{1}{4} =$

c)  $\frac{2}{13} : \frac{2}{41} =$

d)  $\frac{1}{10} : \frac{7}{34} =$

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

- ① a)  $\frac{1}{11} : \frac{1}{11} = \frac{1}{11} \cdot \frac{11}{1} = \frac{1 \cdot 11}{1 \cdot 1} = 1$       b)  $\frac{6}{23} : \frac{2}{7} = \frac{6}{23} \cdot \frac{7}{2} = \frac{3 \cdot 7}{23 \cdot 1} = \frac{21}{23}$
- c)  $\frac{2}{25} : \frac{4}{31} = \frac{2}{25} \cdot \frac{31}{4} = \frac{1 \cdot 31}{25 \cdot 2} = \frac{31}{50}$       d)  $\frac{2}{33} : \frac{1}{33} = \frac{2}{33} \cdot \frac{33}{1} = \frac{2 \cdot 1}{1 \cdot 1} = 2$
- ② a)  $\frac{30}{43} : \frac{2}{3} = \frac{30}{43} \cdot \frac{3}{2} = \frac{15 \cdot 3}{43 \cdot 1} = 1 \frac{2}{43}$       b)  $\frac{3}{20} : \frac{3}{19} = \frac{3}{20} \cdot \frac{19}{3} = \frac{1 \cdot 19}{20 \cdot 1} = \frac{19}{20}$
- c)  $\frac{1}{2} : \frac{15}{28} = \frac{1}{2} \cdot \frac{28}{15} = \frac{1 \cdot 14}{1 \cdot 15} = \frac{14}{15}$       d)  $\frac{2}{35} : \frac{2}{37} = \frac{2}{35} \cdot \frac{37}{2} = \frac{1 \cdot 37}{35 \cdot 1} = 1 \frac{2}{35}$
- ③ a)  $\frac{3}{11} : \frac{3}{17} = \frac{3}{11} \cdot \frac{17}{3} = \frac{1 \cdot 17}{11 \cdot 1} = 1 \frac{6}{11}$       b)  $\frac{1}{12} : \frac{5}{42} = \frac{1}{12} \cdot \frac{42}{5} = \frac{1 \cdot 7}{2 \cdot 5} = \frac{7}{10}$
- c)  $\frac{1}{8} : \frac{1}{6} = \frac{1}{8} \cdot \frac{6}{1} = \frac{1 \cdot 3}{4 \cdot 1} = \frac{3}{4}$       d)  $\frac{8}{21} : \frac{2}{9} = \frac{8}{21} \cdot \frac{9}{2} = \frac{4 \cdot 3}{7 \cdot 1} = 1 \frac{5}{7}$
- ④ a)  $\frac{2}{3} : \frac{10}{37} = \frac{2}{3} \cdot \frac{37}{10} = \frac{1 \cdot 37}{3 \cdot 5} = 2 \frac{7}{15}$       b)  $\frac{7}{13} : \frac{7}{10} = \frac{7}{13} \cdot \frac{10}{7} = \frac{1 \cdot 10}{13 \cdot 1} = \frac{10}{13}$
- c)  $\frac{6}{11} : \frac{3}{16} = \frac{6}{11} \cdot \frac{16}{3} = \frac{2 \cdot 16}{11 \cdot 1} = 2 \frac{10}{11}$       d)  $\frac{4}{25} : \frac{2}{23} = \frac{4}{25} \cdot \frac{23}{2} = \frac{2 \cdot 23}{25 \cdot 1} = 1 \frac{21}{25}$
- ⑤ a)  $\frac{4}{7} : \frac{14}{15} = \frac{4}{7} \cdot \frac{15}{14} = \frac{2 \cdot 15}{7 \cdot 7} = \frac{30}{49}$       b)  $\frac{13}{22} : \frac{1}{4} = \frac{13}{22} \cdot \frac{4}{1} = \frac{13 \cdot 2}{11 \cdot 1} = 2 \frac{4}{11}$
- c)  $\frac{2}{13} : \frac{2}{41} = \frac{2}{13} \cdot \frac{41}{2} = \frac{1 \cdot 41}{13 \cdot 1} = 3 \frac{2}{13}$       d)  $\frac{1}{10} : \frac{7}{34} = \frac{1}{10} \cdot \frac{34}{7} = \frac{1 \cdot 17}{5 \cdot 7} = \frac{17}{35}$