

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

① a)  $\frac{1}{36} : \frac{1}{42} =$

b)  $\frac{11}{20} : \frac{4}{5} =$

c)  $\frac{3}{8} : \frac{9}{10} =$

d)  $\frac{6}{7} : \frac{8}{13} =$

② a)  $\frac{5}{6} : \frac{13}{18} =$

b)  $\frac{1}{15} : \frac{4}{35} =$

c)  $\frac{1}{8} : \frac{5}{12} =$

d)  $\frac{17}{30} : \frac{1}{4} =$

③ a)  $\frac{2}{17} : \frac{2}{17} =$

b)  $\frac{1}{24} : \frac{3}{10} =$

c)  $\frac{1}{6} : \frac{5}{21} =$

d)  $\frac{3}{8} : \frac{11}{30} =$

④ a)  $\frac{2}{3} : \frac{12}{35} =$

b)  $\frac{2}{7} : \frac{6}{11} =$

c)  $\frac{1}{12} : \frac{7}{22} =$

d)  $\frac{6}{23} : \frac{3}{13} =$

⑤ a)  $\frac{7}{18} : \frac{1}{4} =$

b)  $\frac{1}{9} : \frac{7}{30} =$

c)  $\frac{1}{3} : \frac{14}{45} =$

d)  $\frac{2}{21} : \frac{2}{33} =$

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

- ① a)  $\frac{1}{36} : \frac{1}{42} = \frac{1}{36} \cdot \frac{42}{1} = \frac{1 \cdot 7}{6 \cdot 1} = 1 \frac{1}{6}$       b)  $\frac{11}{20} : \frac{4}{5} = \frac{11}{20} \cdot \frac{5}{4} = \frac{11 \cdot 1}{4 \cdot 4} = \frac{11}{16}$
- c)  $\frac{3}{8} : \frac{9}{10} = \frac{3}{8} \cdot \frac{10}{9} = \frac{1 \cdot 5}{4 \cdot 3} = \frac{5}{12}$       d)  $\frac{6}{7} : \frac{8}{13} = \frac{6}{7} \cdot \frac{13}{8} = \frac{3 \cdot 13}{7 \cdot 4} = 1 \frac{11}{28}$
- ② a)  $\frac{5}{6} : \frac{13}{18} = \frac{5}{6} \cdot \frac{18}{13} = \frac{5 \cdot 3}{1 \cdot 13} = 1 \frac{2}{13}$       b)  $\frac{1}{15} : \frac{4}{35} = \frac{1}{15} \cdot \frac{35}{4} = \frac{1 \cdot 7}{3 \cdot 4} = \frac{7}{12}$
- c)  $\frac{1}{8} : \frac{5}{12} = \frac{1}{8} \cdot \frac{12}{5} = \frac{1 \cdot 3}{2 \cdot 5} = \frac{3}{10}$       d)  $\frac{17}{30} : \frac{1}{4} = \frac{17}{30} \cdot \frac{4}{1} = \frac{17 \cdot 2}{15 \cdot 1} = 2 \frac{4}{15}$
- ③ a)  $\frac{2}{17} : \frac{2}{17} = \frac{2}{17} \cdot \frac{17}{2} = \frac{1 \cdot 1}{1 \cdot 1} = 1$       b)  $\frac{1}{24} : \frac{3}{10} = \frac{1}{24} \cdot \frac{10}{3} = \frac{1 \cdot 5}{12 \cdot 3} = \frac{5}{36}$
- c)  $\frac{1}{6} : \frac{5}{21} = \frac{1}{6} \cdot \frac{21}{5} = \frac{1 \cdot 7}{2 \cdot 5} = \frac{7}{10}$       d)  $\frac{3}{8} : \frac{11}{30} = \frac{3}{8} \cdot \frac{30}{11} = \frac{3 \cdot 15}{4 \cdot 11} = 1 \frac{1}{44}$
- ④ a)  $\frac{2}{3} : \frac{12}{35} = \frac{2}{3} \cdot \frac{35}{12} = \frac{1 \cdot 35}{3 \cdot 6} = 1 \frac{17}{18}$       b)  $\frac{2}{7} : \frac{6}{11} = \frac{2}{7} \cdot \frac{11}{6} = \frac{1 \cdot 11}{7 \cdot 3} = \frac{11}{21}$
- c)  $\frac{1}{12} : \frac{7}{22} = \frac{1}{12} \cdot \frac{22}{7} = \frac{1 \cdot 11}{6 \cdot 7} = \frac{11}{42}$       d)  $\frac{6}{23} : \frac{3}{13} = \frac{6}{23} \cdot \frac{13}{3} = \frac{2 \cdot 13}{23 \cdot 1} = 1 \frac{3}{23}$
- ⑤ a)  $\frac{7}{18} : \frac{1}{4} = \frac{7}{18} \cdot \frac{4}{1} = \frac{7 \cdot 2}{9 \cdot 1} = 1 \frac{5}{9}$       b)  $\frac{1}{9} : \frac{7}{30} = \frac{1}{9} \cdot \frac{30}{7} = \frac{1 \cdot 10}{3 \cdot 7} = \frac{10}{21}$
- c)  $\frac{1}{3} : \frac{14}{45} = \frac{1}{3} \cdot \frac{45}{14} = \frac{1 \cdot 15}{1 \cdot 14} = 1 \frac{1}{14}$       d)  $\frac{2}{21} : \frac{2}{33} = \frac{2}{21} \cdot \frac{33}{2} = \frac{1 \cdot 11}{7 \cdot 1} = 1 \frac{4}{7}$