

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

① a)  $\frac{5}{13} : \frac{5}{12} =$

b)  $\frac{1}{10} : \frac{7}{45} =$

c)  $\frac{17}{32} : \frac{1}{4} =$

d)  $\frac{1}{8} : \frac{3}{44} =$

② a)  $\frac{4}{35} : \frac{2}{5} =$

b)  $\frac{2}{13} : \frac{7}{26} =$

c)  $\frac{1}{24} : \frac{1}{39} =$

d)  $\frac{2}{3} : \frac{6}{17} =$

③ a)  $\frac{8}{15} : \frac{5}{9} =$

b)  $\frac{1}{20} : \frac{4}{45} =$

c)  $\frac{29}{42} : \frac{1}{2} =$

d)  $\frac{12}{17} : \frac{2}{7} =$

④ a)  $\frac{3}{32} : \frac{3}{29} =$

b)  $\frac{13}{20} : \frac{4}{5} =$

c)  $\frac{3}{4} : \frac{6}{25} =$

d)  $\frac{5}{42} : \frac{1}{16} =$

⑤ a)  $\frac{1}{7} : \frac{9}{35} =$

b)  $\frac{1}{27} : \frac{2}{39} =$

c)  $\frac{1}{34} : \frac{1}{36} =$

d)  $\frac{6}{11} : \frac{8}{15} =$

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

- ① a)  $\frac{5}{13} : \frac{5}{12} = \frac{5}{13} \cdot \frac{12}{5} = \frac{1 \cdot 12}{13 \cdot 1} = \frac{12}{13}$       b)  $\frac{1}{10} : \frac{7}{45} = \frac{1}{10} \cdot \frac{45}{7} = \frac{1 \cdot 9}{2 \cdot 7} = \frac{9}{14}$
- c)  $\frac{17}{32} : \frac{1}{4} = \frac{17}{32} \cdot \frac{4}{1} = \frac{17 \cdot 1}{8 \cdot 1} = 2 \frac{1}{8}$       d)  $\frac{1}{8} : \frac{3}{44} = \frac{1}{8} \cdot \frac{44}{3} = \frac{1 \cdot 11}{2 \cdot 3} = 1 \frac{5}{6}$
- ② a)  $\frac{4}{35} : \frac{2}{5} = \frac{4}{35} \cdot \frac{5}{2} = \frac{2 \cdot 1}{7 \cdot 1} = \frac{2}{7}$       b)  $\frac{2}{13} : \frac{7}{26} = \frac{2}{13} \cdot \frac{26}{7} = \frac{2 \cdot 2}{1 \cdot 7} = \frac{4}{7}$
- c)  $\frac{1}{24} : \frac{1}{39} = \frac{1}{24} \cdot \frac{39}{1} = \frac{1 \cdot 13}{8 \cdot 1} = 1 \frac{5}{8}$       d)  $\frac{2}{3} : \frac{6}{17} = \frac{2}{3} \cdot \frac{17}{6} = \frac{1 \cdot 17}{3 \cdot 3} = 1 \frac{8}{9}$
- ③ a)  $\frac{8}{15} : \frac{5}{9} = \frac{8}{15} \cdot \frac{9}{5} = \frac{8 \cdot 3}{5 \cdot 5} = \frac{24}{25}$       b)  $\frac{1}{20} : \frac{4}{45} = \frac{1}{20} \cdot \frac{45}{4} = \frac{1 \cdot 9}{4 \cdot 4} = \frac{9}{16}$
- c)  $\frac{29}{42} : \frac{1}{2} = \frac{29}{42} \cdot \frac{2}{1} = \frac{29 \cdot 1}{21 \cdot 1} = 1 \frac{8}{21}$       d)  $\frac{12}{17} : \frac{2}{7} = \frac{12}{17} \cdot \frac{7}{2} = \frac{6 \cdot 7}{17 \cdot 1} = 2 \frac{8}{17}$
- ④ a)  $\frac{3}{32} : \frac{3}{29} = \frac{3}{32} \cdot \frac{29}{3} = \frac{1 \cdot 29}{32 \cdot 1} = \frac{29}{32}$       b)  $\frac{13}{20} : \frac{4}{5} = \frac{13}{20} \cdot \frac{5}{4} = \frac{13 \cdot 1}{4 \cdot 4} = \frac{13}{16}$
- c)  $\frac{3}{4} : \frac{6}{25} = \frac{3}{4} \cdot \frac{25}{6} = \frac{1 \cdot 25}{4 \cdot 2} = 3 \frac{1}{8}$       d)  $\frac{5}{42} : \frac{1}{16} = \frac{5}{42} \cdot \frac{16}{1} = \frac{5 \cdot 8}{21 \cdot 1} = 1 \frac{19}{21}$
- ⑤ a)  $\frac{1}{7} : \frac{9}{35} = \frac{1}{7} \cdot \frac{35}{9} = \frac{1 \cdot 5}{1 \cdot 9} = \frac{5}{9}$       b)  $\frac{1}{27} : \frac{2}{39} = \frac{1}{27} \cdot \frac{39}{2} = \frac{1 \cdot 13}{9 \cdot 2} = \frac{13}{18}$
- c)  $\frac{1}{34} : \frac{1}{36} = \frac{1}{34} \cdot \frac{36}{1} = \frac{1 \cdot 18}{17 \cdot 1} = 1 \frac{1}{17}$       d)  $\frac{6}{11} : \frac{8}{15} = \frac{6}{11} \cdot \frac{15}{8} = \frac{3 \cdot 15}{11 \cdot 4} = 1 \frac{1}{44}$