

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

① a) $\frac{5}{34} : \frac{1}{17} =$

b) $\frac{1}{14} : \frac{7}{38} =$

c) $\frac{3}{10} : \frac{5}{28} =$

d) $\frac{1}{27} : \frac{1}{39} =$

② a) $\frac{2}{9} : \frac{7}{24} =$

b) $\frac{1}{30} : \frac{2}{35} =$

c) $\frac{2}{33} : \frac{1}{45} =$

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

③ a) $\frac{3}{22} : \frac{3}{20} =$

b) $\frac{3}{35} : \frac{1}{7} =$

c) $\frac{2}{19} : \frac{2}{25} =$

d) $\frac{1}{5} : \frac{4}{45} =$

④ a) $\frac{5}{24} : \frac{3}{4} =$

b) $\frac{2}{3} : \frac{5}{21} =$

c) $\frac{8}{27} : \frac{1}{6} =$

d) $\frac{1}{14} : \frac{6}{7} =$

⑤ a) $\frac{1}{2} : \frac{21}{26} =$

b) $\frac{5}{33} : \frac{2}{15} =$

c) $\frac{1}{16} : \frac{1}{36} =$

d) $\frac{5}{24} : \frac{3}{8} =$

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

- ① a) $\frac{5}{34} : \frac{1}{17} = \frac{5}{34} \cdot \frac{17}{1} = \frac{5 \cdot 1}{2 \cdot 1} = 2 \frac{1}{2}$ b) $\frac{1}{14} : \frac{7}{38} = \frac{1}{14} \cdot \frac{38}{7} = \frac{1 \cdot 19}{7 \cdot 7} = \frac{19}{49}$
- c) $\frac{3}{10} : \frac{5}{28} = \frac{3}{10} \cdot \frac{28}{5} = \frac{3 \cdot 14}{5 \cdot 5} = 1 \frac{17}{25}$ d) $\frac{1}{27} : \frac{1}{39} = \frac{1}{27} \cdot \frac{39}{1} = \frac{1 \cdot 13}{9 \cdot 1} = 1 \frac{4}{9}$
- ② a) $\frac{2}{9} : \frac{7}{24} = \frac{2}{9} \cdot \frac{24}{7} = \frac{2 \cdot 8}{3 \cdot 7} = \frac{16}{21}$ b) $\frac{1}{30} : \frac{2}{35} = \frac{1}{30} \cdot \frac{35}{2} = \frac{1 \cdot 7}{6 \cdot 2} = \frac{7}{12}$
- c) $\frac{2}{33} : \frac{1}{45} = \frac{2}{33} \cdot \frac{45}{1} = \frac{2 \cdot 15}{11 \cdot 1} = 2 \frac{8}{11}$ d) $\frac{1}{2} : \frac{13}{44} = \frac{1}{2} \cdot \frac{44}{13} = \frac{1 \cdot 22}{1 \cdot 13} = 1 \frac{9}{13}$
- ③ a) $\frac{3}{22} : \frac{3}{20} = \frac{3}{22} \cdot \frac{20}{3} = \frac{1 \cdot 10}{11 \cdot 1} = \frac{10}{11}$ b) $\frac{3}{35} : \frac{1}{7} = \frac{3}{35} \cdot \frac{7}{1} = \frac{3 \cdot 1}{5 \cdot 1} = \frac{3}{5}$
- c) $\frac{2}{19} : \frac{2}{25} = \frac{2}{19} \cdot \frac{25}{2} = \frac{1 \cdot 25}{19 \cdot 1} = 1 \frac{6}{19}$ d) $\frac{1}{5} : \frac{4}{45} = \frac{1}{5} \cdot \frac{45}{4} = \frac{1 \cdot 9}{1 \cdot 4} = 2 \frac{1}{4}$
- ④ a) $\frac{5}{24} : \frac{3}{4} = \frac{5}{24} \cdot \frac{4}{3} = \frac{5 \cdot 1}{6 \cdot 3} = \frac{5}{18}$ b) $\frac{2}{3} : \frac{5}{21} = \frac{2}{3} \cdot \frac{21}{5} = \frac{2 \cdot 7}{1 \cdot 5} = 2 \frac{4}{5}$
- c) $\frac{8}{27} : \frac{1}{6} = \frac{8}{27} \cdot \frac{6}{1} = \frac{8 \cdot 2}{9 \cdot 1} = 1 \frac{7}{9}$ d) $\frac{1}{14} : \frac{6}{7} = \frac{1}{14} \cdot \frac{7}{6} = \frac{1 \cdot 1}{2 \cdot 6} = \frac{1}{12}$
- ⑤ a) $\frac{1}{2} : \frac{21}{26} = \frac{1}{2} \cdot \frac{26}{21} = \frac{1 \cdot 13}{1 \cdot 21} = \frac{13}{21}$ b) $\frac{5}{33} : \frac{2}{15} = \frac{5}{33} \cdot \frac{15}{2} = \frac{5 \cdot 5}{11 \cdot 2} = 1 \frac{3}{22}$
- c) $\frac{1}{16} : \frac{1}{36} = \frac{1}{16} \cdot \frac{36}{1} = \frac{1 \cdot 9}{4 \cdot 1} = 2 \frac{1}{4}$ d) $\frac{5}{24} : \frac{3}{8} = \frac{5}{24} \cdot \frac{8}{3} = \frac{5 \cdot 1}{3 \cdot 3} = \frac{5}{9}$