

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

① a) $\frac{1}{4} : \frac{19}{26} =$

b) $\frac{2}{37} : \frac{2}{15} =$

c) $\frac{4}{7} : \frac{1}{14} =$

d) $\frac{4}{5} : \frac{10}{13} =$

② a) $\frac{4}{35} : \frac{2}{11} =$

b) $\frac{2}{3} : \frac{20}{27} =$

c) $\frac{2}{39} : \frac{1}{45} =$

d) $\frac{3}{4} : \frac{3}{26} =$

③ a) $\frac{3}{14} : \frac{5}{6} =$

b) $\frac{1}{27} : \frac{2}{9} =$

c) $\frac{3}{20} : \frac{3}{22} =$

d) $\frac{3}{32} : \frac{1}{12} =$

④ a) $\frac{1}{6} : \frac{7}{26} =$

b) $\frac{8}{9} : \frac{6}{11} =$

c) $\frac{9}{10} : \frac{5}{8} =$

d) $\frac{16}{27} : \frac{2}{3} =$

⑤ a) $\frac{1}{20} : \frac{1}{34} =$

b) $\frac{2}{7} : \frac{4}{43} =$

c) $\frac{2}{9} : \frac{8}{35} =$

d) $\frac{1}{33} : \frac{1}{24} =$

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

- ① a) $\frac{1}{4} : \frac{19}{26} = \frac{1}{4} \cdot \frac{26}{19} = \frac{1 \cdot 13}{2 \cdot 19} = \frac{13}{38}$ b) $\frac{2}{37} : \frac{2}{15} = \frac{2}{37} \cdot \frac{15}{2} = \frac{1 \cdot 15}{37 \cdot 1} = \frac{15}{37}$
- c) $\frac{4}{7} : \frac{1}{14} = \frac{4}{7} \cdot \frac{14}{1} = \frac{4 \cdot 2}{1 \cdot 1} = 8$ d) $\frac{4}{5} : \frac{10}{13} = \frac{4}{5} \cdot \frac{13}{10} = \frac{2 \cdot 13}{5 \cdot 5} = 1 \frac{1}{25}$
- ② a) $\frac{4}{35} : \frac{2}{11} = \frac{4}{35} \cdot \frac{11}{2} = \frac{2 \cdot 11}{35 \cdot 1} = \frac{22}{35}$ b) $\frac{2}{3} : \frac{20}{27} = \frac{2}{3} \cdot \frac{27}{20} = \frac{1 \cdot 9}{1 \cdot 10} = \frac{9}{10}$
- c) $\frac{2}{39} : \frac{1}{45} = \frac{2}{39} \cdot \frac{45}{1} = \frac{2 \cdot 15}{13 \cdot 1} = 2 \frac{4}{13}$ d) $\frac{3}{4} : \frac{3}{26} = \frac{3}{4} \cdot \frac{26}{3} = \frac{1 \cdot 13}{2 \cdot 1} = 6 \frac{1}{2}$
- ③ a) $\frac{3}{14} : \frac{5}{6} = \frac{3}{14} \cdot \frac{6}{5} = \frac{3 \cdot 3}{7 \cdot 5} = \frac{9}{35}$ b) $\frac{1}{27} : \frac{2}{9} = \frac{1}{27} \cdot \frac{9}{2} = \frac{1 \cdot 1}{3 \cdot 2} = \frac{1}{6}$
- c) $\frac{3}{20} : \frac{3}{22} = \frac{3}{20} \cdot \frac{22}{3} = \frac{1 \cdot 11}{10 \cdot 1} = 1 \frac{1}{10}$ d) $\frac{3}{32} : \frac{1}{12} = \frac{3}{32} \cdot \frac{12}{1} = \frac{3 \cdot 3}{8 \cdot 1} = 1 \frac{1}{8}$
- ④ a) $\frac{1}{6} : \frac{7}{26} = \frac{1}{6} \cdot \frac{26}{7} = \frac{1 \cdot 13}{3 \cdot 7} = \frac{13}{21}$ b) $\frac{8}{9} : \frac{6}{11} = \frac{8}{9} \cdot \frac{11}{6} = \frac{4 \cdot 11}{9 \cdot 3} = 1 \frac{17}{27}$
- c) $\frac{9}{10} : \frac{5}{8} = \frac{9}{10} \cdot \frac{8}{5} = \frac{9 \cdot 4}{5 \cdot 5} = 1 \frac{11}{25}$ d) $\frac{16}{27} : \frac{2}{3} = \frac{16}{27} \cdot \frac{3}{2} = \frac{8 \cdot 1}{9 \cdot 1} = \frac{8}{9}$
- ⑤ a) $\frac{1}{20} : \frac{1}{34} = \frac{1}{20} \cdot \frac{34}{1} = \frac{1 \cdot 17}{10 \cdot 1} = 1 \frac{7}{10}$ b) $\frac{2}{7} : \frac{4}{43} = \frac{2}{7} \cdot \frac{43}{4} = \frac{1 \cdot 43}{7 \cdot 2} = 3 \frac{1}{14}$
- c) $\frac{2}{9} : \frac{8}{35} = \frac{2}{9} \cdot \frac{35}{8} = \frac{1 \cdot 35}{9 \cdot 4} = \frac{35}{36}$ d) $\frac{1}{33} : \frac{1}{24} = \frac{1}{33} \cdot \frac{24}{1} = \frac{1 \cdot 8}{11 \cdot 1} = \frac{8}{11}$