

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

① a) $\frac{2}{5} : \frac{6}{17} =$

b) $\frac{1}{18} : \frac{4}{27} =$

c) $\frac{3}{20} : \frac{1}{10} =$

d) $\frac{9}{13} : \frac{6}{11} =$

② a) $\frac{3}{26} : \frac{3}{7} =$

b) $\frac{11}{24} : \frac{2}{3} =$

c) $\frac{5}{32} : \frac{1}{14} =$

d) $\frac{2}{11} : \frac{6}{41} =$

③ a) $\frac{2}{23} : \frac{4}{15} =$

b) $\frac{16}{21} : \frac{1}{6} =$

c) $\frac{3}{14} : \frac{3}{28} =$

d) $\frac{1}{7} : \frac{8}{35} =$

④ a) $\frac{3}{16} : \frac{6}{25} =$

b) $\frac{1}{4} : \frac{3}{22} =$

c) $\frac{2}{9} : \frac{8}{43} =$

d) $\frac{12}{35} : \frac{2}{3} =$

⑤ a) $\frac{4}{13} : \frac{4}{17} =$

b) $\frac{3}{28} : \frac{3}{32} =$

c) $\frac{5}{16} : \frac{5}{7} =$

d) $\frac{8}{23} : \frac{4}{9} =$

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

- ① a) $\frac{2}{5} : \frac{6}{17} = \frac{2}{5} \cdot \frac{17}{6} = \frac{1 \cdot 17}{5 \cdot 3} = 1 \frac{2}{15}$ b) $\frac{1}{18} : \frac{4}{27} = \frac{1}{18} \cdot \frac{27}{4} = \frac{1 \cdot 3}{2 \cdot 4} = \frac{3}{8}$
- c) $\frac{3}{20} : \frac{1}{10} = \frac{3}{20} \cdot \frac{10}{1} = \frac{3 \cdot 1}{2 \cdot 1} = 1 \frac{1}{2}$ d) $\frac{9}{13} : \frac{6}{11} = \frac{9}{13} \cdot \frac{11}{6} = \frac{3 \cdot 11}{13 \cdot 2} = 1 \frac{7}{26}$
- ② a) $\frac{3}{26} : \frac{3}{7} = \frac{3}{26} \cdot \frac{7}{3} = \frac{1 \cdot 7}{26 \cdot 1} = \frac{7}{26}$ b) $\frac{11}{24} : \frac{2}{3} = \frac{11}{24} \cdot \frac{3}{2} = \frac{11 \cdot 1}{8 \cdot 2} = \frac{11}{16}$
- c) $\frac{5}{32} : \frac{1}{14} = \frac{5}{32} \cdot \frac{14}{1} = \frac{5 \cdot 7}{16 \cdot 1} = 2 \frac{3}{16}$ d) $\frac{2}{11} : \frac{6}{41} = \frac{2}{11} \cdot \frac{41}{6} = \frac{1 \cdot 41}{11 \cdot 3} = 1 \frac{8}{33}$
- ③ a) $\frac{2}{23} : \frac{4}{15} = \frac{2}{23} \cdot \frac{15}{4} = \frac{1 \cdot 15}{23 \cdot 2} = \frac{15}{46}$ b) $\frac{16}{21} : \frac{1}{6} = \frac{16}{21} \cdot \frac{6}{1} = \frac{16 \cdot 2}{7 \cdot 1} = 4 \frac{4}{7}$
- c) $\frac{3}{14} : \frac{3}{28} = \frac{3}{14} \cdot \frac{28}{3} = \frac{1 \cdot 2}{1 \cdot 1} = 2$ d) $\frac{1}{7} : \frac{8}{35} = \frac{1}{7} \cdot \frac{35}{8} = \frac{1 \cdot 5}{1 \cdot 8} = \frac{5}{8}$
- ④ a) $\frac{3}{16} : \frac{6}{25} = \frac{3}{16} \cdot \frac{25}{6} = \frac{1 \cdot 25}{16 \cdot 2} = \frac{25}{32}$ b) $\frac{1}{4} : \frac{3}{22} = \frac{1}{4} \cdot \frac{22}{3} = \frac{1 \cdot 11}{2 \cdot 3} = 1 \frac{5}{6}$
- c) $\frac{2}{9} : \frac{8}{43} = \frac{2}{9} \cdot \frac{43}{8} = \frac{1 \cdot 43}{9 \cdot 4} = 1 \frac{7}{36}$ d) $\frac{12}{35} : \frac{2}{3} = \frac{12}{35} \cdot \frac{3}{2} = \frac{6 \cdot 3}{35 \cdot 1} = \frac{18}{35}$
- ⑤ a) $\frac{4}{13} : \frac{4}{17} = \frac{4}{13} \cdot \frac{17}{4} = \frac{1 \cdot 17}{13 \cdot 1} = 1 \frac{4}{13}$ b) $\frac{3}{28} : \frac{3}{32} = \frac{3}{28} \cdot \frac{32}{3} = \frac{1 \cdot 8}{7 \cdot 1} = 1 \frac{1}{7}$
- c) $\frac{5}{16} : \frac{5}{7} = \frac{5}{16} \cdot \frac{7}{5} = \frac{1 \cdot 7}{16 \cdot 1} = \frac{7}{16}$ d) $\frac{8}{23} : \frac{4}{9} = \frac{8}{23} \cdot \frac{9}{4} = \frac{2 \cdot 9}{23 \cdot 1} = \frac{18}{23}$