

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

① a) $\frac{3}{20} : \frac{3}{16} =$

b) $\frac{4}{45} : \frac{2}{9} =$

c) $\frac{4}{27} : \frac{1}{24} =$

d) $\frac{2}{3} : \frac{11}{39} =$

② a) $\frac{2}{15} : \frac{3}{5} =$

b) $\frac{1}{2} : \frac{5}{16} =$

c) $\frac{2}{7} : \frac{2}{17} =$

d) $\frac{3}{28} : \frac{3}{26} =$

③ a) $\frac{2}{29} : \frac{1}{29} =$

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

c) $\frac{2}{9} : \frac{7}{30} =$

d) $\frac{3}{7} : \frac{6}{23} =$

④ a) $\frac{19}{22} : \frac{1}{2} =$

b) $\frac{6}{25} : \frac{2}{3} =$

c) $\frac{3}{5} : \frac{17}{20} =$

d) $\frac{1}{28} : \frac{1}{30} =$

⑤ a) $\frac{4}{41} : \frac{2}{21} =$

b) $\frac{1}{12} : \frac{7}{12} =$

c) $\frac{1}{32} : \frac{1}{10} =$

d) $\frac{5}{9} : \frac{8}{15} =$

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

- ① a) $\frac{3}{20} : \frac{3}{16} = \frac{3}{20} \cdot \frac{16}{3} = \frac{1 \cdot 4}{5 \cdot 1} = \frac{4}{5}$ b) $\frac{4}{45} : \frac{2}{9} = \frac{4}{45} \cdot \frac{9}{2} = \frac{2 \cdot 1}{5 \cdot 1} = \frac{2}{5}$
- c) $\frac{4}{27} : \frac{1}{24} = \frac{4}{27} \cdot \frac{24}{1} = \frac{4 \cdot 8}{9 \cdot 1} = 3 \frac{5}{9}$ d) $\frac{2}{3} : \frac{11}{39} = \frac{2}{3} \cdot \frac{39}{11} = \frac{2 \cdot 13}{1 \cdot 11} = 2 \frac{4}{11}$
- ② a) $\frac{2}{15} : \frac{3}{5} = \frac{2}{15} \cdot \frac{5}{3} = \frac{2 \cdot 1}{3 \cdot 3} = \frac{2}{9}$ b) $\frac{1}{2} : \frac{5}{16} = \frac{1}{2} \cdot \frac{16}{5} = \frac{1 \cdot 8}{1 \cdot 5} = 1 \frac{3}{5}$
- c) $\frac{2}{7} : \frac{2}{17} = \frac{2}{7} \cdot \frac{17}{2} = \frac{1 \cdot 17}{7 \cdot 1} = 2 \frac{3}{7}$ d) $\frac{3}{28} : \frac{3}{26} = \frac{3}{28} \cdot \frac{26}{3} = \frac{1 \cdot 13}{14 \cdot 1} = \frac{13}{14}$
- ③ a) $\frac{2}{29} : \frac{1}{29} = \frac{2}{29} \cdot \frac{29}{1} = \frac{2 \cdot 1}{1 \cdot 1} = 2$ b) $\frac{2}{13} : \frac{2}{13} = \frac{2}{13} \cdot \frac{13}{2} = \frac{1 \cdot 1}{1 \cdot 1} = 1$
- c) $\frac{2}{9} : \frac{7}{30} = \frac{2}{9} \cdot \frac{30}{7} = \frac{2 \cdot 10}{3 \cdot 7} = \frac{20}{21}$ d) $\frac{3}{7} : \frac{6}{23} = \frac{3}{7} \cdot \frac{23}{6} = \frac{1 \cdot 23}{7 \cdot 2} = 1 \frac{9}{14}$
- ④ a) $\frac{19}{22} : \frac{1}{2} = \frac{19}{22} \cdot \frac{2}{1} = \frac{19 \cdot 1}{11 \cdot 1} = 1 \frac{8}{11}$ b) $\frac{6}{25} : \frac{2}{3} = \frac{6}{25} \cdot \frac{3}{2} = \frac{3 \cdot 3}{25 \cdot 1} = \frac{9}{25}$
- c) $\frac{3}{5} : \frac{17}{20} = \frac{3}{5} \cdot \frac{20}{17} = \frac{3 \cdot 4}{1 \cdot 17} = \frac{12}{17}$ d) $\frac{1}{28} : \frac{1}{30} = \frac{1}{28} \cdot \frac{30}{1} = \frac{1 \cdot 15}{14 \cdot 1} = 1 \frac{1}{14}$
- ⑤ a) $\frac{4}{41} : \frac{2}{21} = \frac{4}{41} \cdot \frac{21}{2} = \frac{2 \cdot 21}{41 \cdot 1} = 1 \frac{1}{41}$ b) $\frac{1}{12} : \frac{7}{12} = \frac{1}{12} \cdot \frac{12}{7} = \frac{1 \cdot 1}{1 \cdot 7} = \frac{1}{7}$
- c) $\frac{1}{32} : \frac{1}{10} = \frac{1}{32} \cdot \frac{10}{1} = \frac{1 \cdot 5}{16 \cdot 1} = \frac{5}{16}$ d) $\frac{5}{9} : \frac{8}{15} = \frac{5}{9} \cdot \frac{15}{8} = \frac{5 \cdot 5}{3 \cdot 8} = 1 \frac{1}{24}$