

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

① a) $\frac{2}{11} : \frac{1}{33} =$

b) $\frac{1}{3} : \frac{29}{36} =$

c) $\frac{9}{10} : \frac{3}{10} =$

d) $\frac{9}{34} : \frac{1}{8} =$

② a) $\frac{6}{41} : \frac{2}{9} =$

b) $\frac{1}{11} : \frac{7}{33} =$

c) $\frac{7}{24} : \frac{1}{4} =$

d) $\frac{6}{13} : \frac{2}{15} =$

③ a) $\frac{1}{5} : \frac{16}{35} =$

b) $\frac{1}{14} : \frac{5}{22} =$

c) $\frac{3}{11} : \frac{3}{32} =$

d) $\frac{4}{9} : \frac{2}{7} =$

④ a) $\frac{1}{36} : \frac{1}{26} =$

b) $\frac{2}{5} : \frac{17}{20} =$

c) $\frac{8}{15} : \frac{4}{11} =$

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

⑤ a) $\frac{1}{2} : \frac{21}{22} =$

b) $\frac{2}{25} : \frac{2}{31} =$

c) $\frac{3}{10} : \frac{1}{28} =$

d) $\frac{2}{15} : \frac{5}{24} =$

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

- ① a) $\frac{2}{11} : \frac{1}{33} = \frac{2}{11} \cdot \frac{33}{1} = \frac{2 \cdot 3}{1 \cdot 1} = 6$ b) $\frac{1}{3} : \frac{29}{36} = \frac{1}{3} \cdot \frac{36}{29} = \frac{1 \cdot 12}{1 \cdot 29} = \frac{12}{29}$
- c) $\frac{9}{10} : \frac{3}{10} = \frac{9}{10} \cdot \frac{10}{3} = \frac{3 \cdot 1}{1 \cdot 1} = 3$ d) $\frac{9}{34} : \frac{1}{8} = \frac{9}{34} \cdot \frac{8}{1} = \frac{9 \cdot 4}{17 \cdot 1} = 2 \frac{2}{17}$
- ② a) $\frac{6}{41} : \frac{2}{9} = \frac{6}{41} \cdot \frac{9}{2} = \frac{3 \cdot 9}{41 \cdot 1} = \frac{27}{41}$ b) $\frac{1}{11} : \frac{7}{33} = \frac{1}{11} \cdot \frac{33}{7} = \frac{1 \cdot 3}{1 \cdot 7} = \frac{3}{7}$
- c) $\frac{7}{24} : \frac{1}{4} = \frac{7}{24} \cdot \frac{4}{1} = \frac{7 \cdot 1}{6 \cdot 1} = 1 \frac{1}{6}$ d) $\frac{6}{13} : \frac{2}{15} = \frac{6}{13} \cdot \frac{15}{2} = \frac{3 \cdot 15}{13 \cdot 1} = 3 \frac{6}{13}$
- ③ a) $\frac{1}{5} : \frac{16}{35} = \frac{1}{5} \cdot \frac{35}{16} = \frac{1 \cdot 7}{1 \cdot 16} = \frac{7}{16}$ b) $\frac{1}{14} : \frac{5}{22} = \frac{1}{14} \cdot \frac{22}{5} = \frac{1 \cdot 11}{7 \cdot 5} = \frac{11}{35}$
- c) $\frac{3}{11} : \frac{3}{32} = \frac{3}{11} \cdot \frac{32}{3} = \frac{1 \cdot 32}{11 \cdot 1} = 2 \frac{10}{11}$ d) $\frac{4}{9} : \frac{2}{7} = \frac{4}{9} \cdot \frac{7}{2} = \frac{2 \cdot 7}{9 \cdot 1} = 1 \frac{5}{9}$
- ④ a) $\frac{1}{36} : \frac{1}{26} = \frac{1}{36} \cdot \frac{26}{1} = \frac{1 \cdot 13}{18 \cdot 1} = \frac{13}{18}$ b) $\frac{2}{5} : \frac{17}{20} = \frac{2}{5} \cdot \frac{20}{17} = \frac{2 \cdot 4}{1 \cdot 17} = \frac{8}{17}$
- c) $\frac{8}{15} : \frac{4}{11} = \frac{8}{15} \cdot \frac{11}{4} = \frac{2 \cdot 11}{15 \cdot 1} = 1 \frac{7}{15}$ d) $\frac{1}{27} : \frac{1}{27} = \frac{1}{27} \cdot \frac{27}{1} = \frac{1 \cdot 1}{1 \cdot 1} = 1$
- ⑤ a) $\frac{1}{2} : \frac{21}{22} = \frac{1}{2} \cdot \frac{22}{21} = \frac{1 \cdot 11}{1 \cdot 21} = \frac{11}{21}$ b) $\frac{2}{25} : \frac{2}{31} = \frac{2}{25} \cdot \frac{31}{2} = \frac{1 \cdot 31}{25 \cdot 1} = 1 \frac{6}{25}$
- c) $\frac{3}{10} : \frac{1}{28} = \frac{3}{10} \cdot \frac{28}{1} = \frac{3 \cdot 14}{5 \cdot 1} = 8 \frac{2}{5}$ d) $\frac{2}{15} : \frac{5}{24} = \frac{2}{15} \cdot \frac{24}{5} = \frac{2 \cdot 8}{5 \cdot 5} = \frac{16}{25}$