

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

① a) $\frac{3}{11} : \frac{3}{10} =$

b) $\frac{2}{21} : \frac{4}{33} =$

c) $\frac{7}{15} : \frac{1}{12} =$

d) $\frac{3}{8} : \frac{7}{32} =$

② a) $\frac{2}{9} : \frac{8}{11} =$

b) $\frac{2}{5} : \frac{19}{30} =$

c) $\frac{9}{26} : \frac{1}{10} =$

d) $\frac{1}{15} : \frac{2}{33} =$

③ a) $\frac{5}{13} : \frac{5}{11} =$

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

c) $\frac{3}{8} : \frac{9}{31} =$

d) $\frac{3}{25} : \frac{3}{7} =$

④ a) $\frac{4}{37} : \frac{2}{15} =$

b) $\frac{3}{5} : \frac{9}{16} =$

c) $\frac{2}{3} : \frac{4}{35} =$

d) $\frac{2}{33} : \frac{3}{22} =$

⑤ a) $\frac{4}{7} : \frac{6}{11} =$

b) $\frac{5}{14} : \frac{1}{10} =$

c) $\frac{1}{4} : \frac{25}{38} =$

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

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

- ① a) $\frac{3}{11} : \frac{3}{10} = \frac{3}{11} \cdot \frac{10}{3} = \frac{1 \cdot 10}{11 \cdot 1} = \frac{10}{11}$ b) $\frac{2}{21} : \frac{4}{33} = \frac{2}{21} \cdot \frac{33}{4} = \frac{1 \cdot 11}{7 \cdot 2} = \frac{11}{14}$
- c) $\frac{7}{15} : \frac{1}{12} = \frac{7}{15} \cdot \frac{12}{1} = \frac{7 \cdot 4}{5 \cdot 1} = 5 \frac{3}{5}$ d) $\frac{3}{8} : \frac{7}{32} = \frac{3}{8} \cdot \frac{32}{7} = \frac{3 \cdot 4}{1 \cdot 7} = 1 \frac{5}{7}$
- ② a) $\frac{2}{9} : \frac{8}{11} = \frac{2}{9} \cdot \frac{11}{8} = \frac{1 \cdot 11}{9 \cdot 4} = \frac{11}{36}$ b) $\frac{2}{5} : \frac{19}{30} = \frac{2}{5} \cdot \frac{30}{19} = \frac{2 \cdot 6}{1 \cdot 19} = \frac{12}{19}$
- c) $\frac{9}{26} : \frac{1}{10} = \frac{9}{26} \cdot \frac{10}{1} = \frac{9 \cdot 5}{13 \cdot 1} = 3 \frac{6}{13}$ d) $\frac{1}{15} : \frac{2}{33} = \frac{1}{15} \cdot \frac{33}{2} = \frac{1 \cdot 11}{5 \cdot 2} = 1 \frac{1}{10}$
- ③ a) $\frac{5}{13} : \frac{5}{11} = \frac{5}{13} \cdot \frac{11}{5} = \frac{1 \cdot 11}{13 \cdot 1} = \frac{11}{13}$ b) $\frac{1}{9} : \frac{1}{27} = \frac{1}{9} \cdot \frac{27}{1} = \frac{1 \cdot 3}{1 \cdot 1} = 3$
- c) $\frac{3}{8} : \frac{9}{31} = \frac{3}{8} \cdot \frac{31}{9} = \frac{1 \cdot 31}{8 \cdot 3} = 1 \frac{7}{24}$ d) $\frac{3}{25} : \frac{3}{7} = \frac{3}{25} \cdot \frac{7}{3} = \frac{1 \cdot 7}{25 \cdot 1} = \frac{7}{25}$
- ④ a) $\frac{4}{37} : \frac{2}{15} = \frac{4}{37} \cdot \frac{15}{2} = \frac{2 \cdot 15}{37 \cdot 1} = \frac{30}{37}$ b) $\frac{3}{5} : \frac{9}{16} = \frac{3}{5} \cdot \frac{16}{9} = \frac{1 \cdot 16}{5 \cdot 3} = 1 \frac{1}{15}$
- c) $\frac{2}{3} : \frac{4}{35} = \frac{2}{3} \cdot \frac{35}{4} = \frac{1 \cdot 35}{3 \cdot 2} = 5 \frac{5}{6}$ d) $\frac{2}{33} : \frac{3}{22} = \frac{2}{33} \cdot \frac{22}{3} = \frac{2 \cdot 2}{3 \cdot 3} = \frac{4}{9}$
- ⑤ a) $\frac{4}{7} : \frac{6}{11} = \frac{4}{7} \cdot \frac{11}{6} = \frac{2 \cdot 11}{7 \cdot 3} = 1 \frac{1}{21}$ b) $\frac{5}{14} : \frac{1}{10} = \frac{5}{14} \cdot \frac{10}{1} = \frac{5 \cdot 5}{7 \cdot 1} = 3 \frac{4}{7}$
- c) $\frac{1}{4} : \frac{25}{38} = \frac{1}{4} \cdot \frac{38}{25} = \frac{1 \cdot 19}{2 \cdot 25} = \frac{19}{50}$ d) $\frac{1}{6} : \frac{16}{21} = \frac{1}{6} \cdot \frac{21}{16} = \frac{1 \cdot 7}{2 \cdot 16} = \frac{7}{32}$