

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

① a) $\frac{2}{3} : \frac{29}{33} =$

b) $\frac{3}{11} : \frac{6}{29} =$

c) $\frac{7}{16} : \frac{1}{6} =$

d) $\frac{3}{14} : \frac{5}{7} =$

② a) $\frac{1}{2} : \frac{29}{40} =$

b) $\frac{1}{12} : \frac{1}{45} =$

c) $\frac{2}{9} : \frac{4}{37} =$

d) $\frac{5}{17} : \frac{5}{8} =$

③ a) $\frac{2}{33} : \frac{1}{15} =$

b) $\frac{3}{5} : \frac{9}{19} =$

c) $\frac{5}{24} : \frac{3}{20} =$

d) $\frac{1}{8} : \frac{11}{38} =$

④ a) $\frac{3}{32} : \frac{1}{32} =$

b) $\frac{4}{9} : \frac{10}{23} =$

c) $\frac{1}{20} : \frac{5}{36} =$

d) $\frac{2}{19} : \frac{2}{35} =$

⑤ a) $\frac{3}{14} : \frac{1}{22} =$

b) $\frac{1}{30} : \frac{3}{5} =$

c) $\frac{1}{21} : \frac{4}{45} =$

d) $\frac{1}{2} : \frac{9}{32} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{3} : \frac{29}{33} = \frac{2}{3} \cdot \frac{33}{29} = \frac{2 \cdot 11}{1 \cdot 29} = \frac{22}{29} \quad \text{b) } \frac{3}{11} : \frac{6}{29} = \frac{3}{11} \cdot \frac{29}{6} = \frac{1 \cdot 29}{11 \cdot 2} = 1 \frac{7}{22}$$

$$\text{c) } \frac{7}{16} : \frac{1}{6} = \frac{7}{16} \cdot \frac{6}{1} = \frac{7 \cdot 3}{8 \cdot 1} = 2 \frac{5}{8} \quad \text{d) } \frac{3}{14} : \frac{5}{7} = \frac{3}{14} \cdot \frac{7}{5} = \frac{3 \cdot 1}{2 \cdot 5} = \frac{3}{10}$$

$$\textcircled{2} \quad \text{a) } \frac{1}{2} : \frac{29}{40} = \frac{1}{2} \cdot \frac{40}{29} = \frac{1 \cdot 20}{1 \cdot 29} = \frac{20}{29} \quad \text{b) } \frac{1}{12} : \frac{1}{45} = \frac{1}{12} \cdot \frac{45}{1} = \frac{1 \cdot 15}{4 \cdot 1} = 3 \frac{3}{4}$$

$$\text{c) } \frac{2}{9} : \frac{4}{37} = \frac{2}{9} \cdot \frac{37}{4} = \frac{1 \cdot 37}{9 \cdot 2} = 2 \frac{1}{18} \quad \text{d) } \frac{5}{17} : \frac{5}{8} = \frac{5}{17} \cdot \frac{8}{5} = \frac{1 \cdot 8}{17 \cdot 1} = \frac{8}{17}$$

$$\textcircled{3} \quad \text{a) } \frac{2}{33} : \frac{1}{15} = \frac{2}{33} \cdot \frac{15}{1} = \frac{2 \cdot 5}{11 \cdot 1} = \frac{10}{11} \quad \text{b) } \frac{3}{5} : \frac{9}{19} = \frac{3}{5} \cdot \frac{19}{9} = \frac{1 \cdot 19}{5 \cdot 3} = 1 \frac{4}{15}$$

$$\text{c) } \frac{5}{24} : \frac{3}{20} = \frac{5}{24} \cdot \frac{20}{3} = \frac{5 \cdot 5}{6 \cdot 3} = 1 \frac{7}{18} \quad \text{d) } \frac{1}{8} : \frac{11}{38} = \frac{1}{8} \cdot \frac{38}{11} = \frac{1 \cdot 19}{4 \cdot 11} = \frac{19}{44}$$

$$\textcircled{4} \quad \text{a) } \frac{3}{32} : \frac{1}{32} = \frac{3}{32} \cdot \frac{32}{1} = \frac{3 \cdot 1}{1 \cdot 1} = 3 \quad \text{b) } \frac{4}{9} : \frac{10}{23} = \frac{4}{9} \cdot \frac{23}{10} = \frac{2 \cdot 23}{9 \cdot 5} = 1 \frac{1}{45}$$

$$\text{c) } \frac{1}{20} : \frac{5}{36} = \frac{1}{20} \cdot \frac{36}{5} = \frac{1 \cdot 9}{5 \cdot 5} = \frac{9}{25} \quad \text{d) } \frac{2}{19} : \frac{2}{35} = \frac{2}{19} \cdot \frac{35}{2} = \frac{1 \cdot 35}{19 \cdot 1} = 1 \frac{16}{19}$$

$$\textcircled{5} \quad \text{a) } \frac{3}{14} : \frac{1}{22} = \frac{3}{14} \cdot \frac{22}{1} = \frac{3 \cdot 11}{7 \cdot 1} = 4 \frac{5}{7} \quad \text{b) } \frac{1}{30} : \frac{3}{5} = \frac{1}{30} \cdot \frac{5}{3} = \frac{1 \cdot 1}{6 \cdot 3} = \frac{1}{18}$$

$$\text{c) } \frac{1}{21} : \frac{4}{45} = \frac{1}{21} \cdot \frac{45}{4} = \frac{1 \cdot 15}{7 \cdot 4} = \frac{15}{28} \quad \text{d) } \frac{1}{2} : \frac{9}{32} = \frac{1}{2} \cdot \frac{32}{9} = \frac{1 \cdot 16}{1 \cdot 9} = 1 \frac{7}{9}$$