

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

① a) $\frac{1}{32} : \frac{1}{2} =$

b) $\frac{7}{8} : \frac{5}{14} =$

c) $\frac{2}{3} : \frac{14}{37} =$

d) $\frac{1}{9} : \frac{7}{24} =$

② a) $\frac{8}{23} : \frac{2}{11} =$

b) $\frac{4}{5} : \frac{18}{25} =$

c) $\frac{5}{7} : \frac{5}{6} =$

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

③ a) $\frac{5}{12} : \frac{1}{4} =$

b) $\frac{2}{25} : \frac{4}{21} =$

c) $\frac{3}{8} : \frac{9}{28} =$

d) $\frac{3}{34} : \frac{1}{22} =$

④ a) $\frac{3}{19} : \frac{5}{19} =$

b) $\frac{1}{17} : \frac{3}{17} =$

c) $\frac{2}{3} : \frac{8}{25} =$

d) $\frac{1}{2} : \frac{5}{28} =$

⑤ a) $\frac{4}{9} : \frac{4}{7} =$

b) $\frac{1}{15} : \frac{1}{45} =$

c) $\frac{5}{13} : \frac{5}{13} =$

d) $\frac{3}{14} : \frac{3}{8} =$

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

$$\textcircled{1} \quad \text{a) } \frac{1}{32} : \frac{1}{2} = \frac{1}{32} \cdot \frac{2}{1} = \frac{1 \cdot 2}{32 \cdot 1} = \frac{1}{16} \quad \text{b) } \frac{7}{8} : \frac{5}{14} = \frac{7}{8} \cdot \frac{14}{5} = \frac{7 \cdot 7}{4 \cdot 5} = 2 \frac{9}{20}$$

$$\text{c) } \frac{2}{3} : \frac{14}{37} = \frac{2}{3} \cdot \frac{37}{14} = \frac{1 \cdot 37}{3 \cdot 7} = 1 \frac{16}{21} \quad \text{d) } \frac{1}{9} : \frac{7}{24} = \frac{1}{9} \cdot \frac{24}{7} = \frac{1 \cdot 8}{3 \cdot 7} = \frac{8}{21}$$

$$\textcircled{2} \quad \text{a) } \frac{8}{23} : \frac{2}{11} = \frac{8}{23} \cdot \frac{11}{2} = \frac{4 \cdot 11}{23 \cdot 1} = 1 \frac{21}{23} \quad \text{b) } \frac{4}{5} : \frac{18}{25} = \frac{4}{5} \cdot \frac{25}{18} = \frac{2 \cdot 5}{1 \cdot 9} = 1 \frac{1}{9}$$

$$\text{c) } \frac{5}{7} : \frac{5}{6} = \frac{5}{7} \cdot \frac{6}{5} = \frac{1 \cdot 6}{7 \cdot 1} = \frac{6}{7} \quad \text{d) } \frac{1}{15} : \frac{2}{33} = \frac{1}{15} \cdot \frac{33}{2} = \frac{1 \cdot 11}{5 \cdot 2} = 1 \frac{1}{10}$$

$$\textcircled{3} \quad \text{a) } \frac{5}{12} : \frac{1}{4} = \frac{5}{12} \cdot \frac{4}{1} = \frac{5 \cdot 1}{3 \cdot 1} = 1 \frac{2}{3} \quad \text{b) } \frac{2}{25} : \frac{4}{21} = \frac{2}{25} \cdot \frac{21}{4} = \frac{1 \cdot 21}{25 \cdot 2} = \frac{21}{50}$$

$$\text{c) } \frac{3}{8} : \frac{9}{28} = \frac{3}{8} \cdot \frac{28}{9} = \frac{1 \cdot 7}{2 \cdot 3} = 1 \frac{1}{6} \quad \text{d) } \frac{3}{34} : \frac{1}{22} = \frac{3}{34} \cdot \frac{22}{1} = \frac{3 \cdot 11}{17 \cdot 1} = 1 \frac{16}{17}$$

$$\textcircled{4} \quad \text{a) } \frac{3}{19} : \frac{5}{19} = \frac{3}{19} \cdot \frac{19}{5} = \frac{3 \cdot 1}{1 \cdot 5} = \frac{3}{5} \quad \text{b) } \frac{1}{17} : \frac{3}{17} = \frac{1}{17} \cdot \frac{17}{3} = \frac{1 \cdot 1}{1 \cdot 3} = \frac{1}{3}$$

$$\text{c) } \frac{2}{3} : \frac{8}{25} = \frac{2}{3} \cdot \frac{25}{8} = \frac{1 \cdot 25}{3 \cdot 4} = 2 \frac{1}{12} \quad \text{d) } \frac{1}{2} : \frac{5}{28} = \frac{1}{2} \cdot \frac{28}{5} = \frac{1 \cdot 14}{1 \cdot 5} = 2 \frac{4}{5}$$

$$\textcircled{5} \quad \text{a) } \frac{4}{9} : \frac{4}{7} = \frac{4}{9} \cdot \frac{7}{4} = \frac{1 \cdot 7}{9 \cdot 1} = \frac{7}{9} \quad \text{b) } \frac{1}{15} : \frac{1}{45} = \frac{1}{15} \cdot \frac{45}{1} = \frac{1 \cdot 3}{1 \cdot 1} = 3$$

$$\text{c) } \frac{5}{13} : \frac{5}{13} = \frac{5}{13} \cdot \frac{13}{5} = \frac{1 \cdot 1}{1 \cdot 1} = 1 \quad \text{d) } \frac{3}{14} : \frac{3}{8} = \frac{3}{14} \cdot \frac{8}{3} = \frac{1 \cdot 4}{7 \cdot 1} = \frac{4}{7}$$