

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

① a) $\frac{9}{25} : \frac{3}{7} =$

b) $\frac{2}{27} : \frac{1}{15} =$

c) $\frac{3}{10} : \frac{7}{30} =$

d) $\frac{1}{8} : \frac{9}{44} =$

② a) $\frac{1}{2} : \frac{17}{28} =$

b) $\frac{8}{13} : \frac{4}{9} =$

c) $\frac{1}{3} : \frac{8}{45} =$

d) $\frac{1}{19} : \frac{2}{19} =$

③ a) $\frac{7}{15} : \frac{5}{12} =$

b) $\frac{4}{7} : \frac{4}{7} =$

c) $\frac{9}{20} : \frac{3}{4} =$

d) $\frac{2}{9} : \frac{2}{27} =$

④ a) $\frac{3}{8} : \frac{9}{28} =$

b) $\frac{1}{6} : \frac{8}{39} =$

c) $\frac{1}{18} : \frac{3}{14} =$

d) $\frac{7}{12} : \frac{1}{4} =$

⑤ a) $\frac{4}{5} : \frac{4}{17} =$

b) $\frac{2}{11} : \frac{6}{11} =$

c) $\frac{8}{27} : \frac{1}{9} =$

d) $\frac{2}{33} : \frac{2}{43} =$

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

$$\textcircled{1} \quad \text{a) } \frac{9}{25} : \frac{3}{7} = \frac{9}{25} \cdot \frac{7}{3} = \frac{3 \cdot 7}{25 \cdot 1} = \frac{21}{25} \quad \text{b) } \frac{2}{27} : \frac{1}{15} = \frac{2}{27} \cdot \frac{15}{1} = \frac{2 \cdot 5}{9 \cdot 1} = 1 \frac{1}{9}$$

$$\text{c) } \frac{3}{10} : \frac{7}{30} = \frac{3}{10} \cdot \frac{30}{7} = \frac{3 \cdot 3}{1 \cdot 7} = 1 \frac{2}{7} \quad \text{d) } \frac{1}{8} : \frac{9}{44} = \frac{1}{8} \cdot \frac{44}{9} = \frac{1 \cdot 11}{2 \cdot 9} = \frac{11}{18}$$

$$\textcircled{2} \quad \text{a) } \frac{1}{2} : \frac{17}{28} = \frac{1}{2} \cdot \frac{28}{17} = \frac{1 \cdot 14}{1 \cdot 17} = \frac{14}{17} \quad \text{b) } \frac{8}{13} : \frac{4}{9} = \frac{8}{13} \cdot \frac{9}{4} = \frac{2 \cdot 9}{13 \cdot 1} = 1 \frac{5}{13}$$

$$\text{c) } \frac{1}{3} : \frac{8}{45} = \frac{1}{3} \cdot \frac{45}{8} = \frac{1 \cdot 15}{1 \cdot 8} = 1 \frac{7}{8} \quad \text{d) } \frac{1}{19} : \frac{2}{19} = \frac{1}{19} \cdot \frac{19}{2} = \frac{1 \cdot 1}{1 \cdot 2} = \frac{1}{2}$$

$$\textcircled{3} \quad \text{a) } \frac{7}{15} : \frac{5}{12} = \frac{7}{15} \cdot \frac{12}{5} = \frac{7 \cdot 4}{5 \cdot 5} = 1 \frac{3}{25} \quad \text{b) } \frac{4}{7} : \frac{4}{7} = \frac{4}{7} \cdot \frac{7}{4} = \frac{1 \cdot 1}{1 \cdot 1} = 1$$

$$\text{c) } \frac{9}{20} : \frac{3}{4} = \frac{9}{20} \cdot \frac{4}{3} = \frac{3 \cdot 1}{5 \cdot 1} = \frac{3}{5} \quad \text{d) } \frac{2}{9} : \frac{2}{27} = \frac{2}{9} \cdot \frac{27}{2} = \frac{1 \cdot 3}{1 \cdot 1} = 3$$

$$\textcircled{4} \quad \text{a) } \frac{3}{8} : \frac{9}{28} = \frac{3}{8} \cdot \frac{28}{9} = \frac{1 \cdot 7}{2 \cdot 3} = 1 \frac{1}{6} \quad \text{b) } \frac{1}{6} : \frac{8}{39} = \frac{1}{6} \cdot \frac{39}{8} = \frac{1 \cdot 13}{2 \cdot 8} = \frac{13}{16}$$

$$\text{c) } \frac{1}{18} : \frac{3}{14} = \frac{1}{18} \cdot \frac{14}{3} = \frac{1 \cdot 7}{9 \cdot 3} = \frac{7}{27} \quad \text{d) } \frac{7}{12} : \frac{1}{4} = \frac{7}{12} \cdot \frac{4}{1} = \frac{7 \cdot 1}{3 \cdot 1} = 2 \frac{1}{3}$$

$$\textcircled{5} \quad \text{a) } \frac{4}{5} : \frac{4}{17} = \frac{4}{5} \cdot \frac{17}{4} = \frac{1 \cdot 17}{5 \cdot 1} = 3 \frac{2}{5} \quad \text{b) } \frac{2}{11} : \frac{6}{11} = \frac{2}{11} \cdot \frac{11}{6} = \frac{1 \cdot 1}{1 \cdot 3} = \frac{1}{3}$$

$$\text{c) } \frac{8}{27} : \frac{1}{9} = \frac{8}{27} \cdot \frac{9}{1} = \frac{8 \cdot 1}{3 \cdot 1} = 2 \frac{2}{3} \quad \text{d) } \frac{2}{33} : \frac{2}{43} = \frac{2}{33} \cdot \frac{43}{2} = \frac{1 \cdot 43}{33 \cdot 1} = 1 \frac{10}{33}$$