

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

① a) $\frac{2}{5} : \frac{9}{25} =$

b) $\frac{1}{32} : \frac{1}{40} =$

c) $\frac{1}{10} : \frac{5}{36} =$

d) $\frac{1}{4} : \frac{23}{28} =$

② a) $\frac{3}{22} : \frac{1}{11} =$

b) $\frac{10}{39} : \frac{2}{9} =$

c) $\frac{2}{23} : \frac{4}{23} =$

d) $\frac{3}{5} : \frac{11}{30} =$

③ a) $\frac{13}{20} : \frac{1}{6} =$

b) $\frac{3}{8} : \frac{6}{7} =$

c) $\frac{2}{37} : \frac{2}{45} =$

d) $\frac{5}{12} : \frac{1}{9} =$

④ a) $\frac{1}{14} : \frac{5}{26} =$

b) $\frac{2}{41} : \frac{2}{35} =$

c) $\frac{19}{30} : \frac{1}{5} =$

d) $\frac{1}{3} : \frac{4}{27} =$

⑤ a) $\frac{1}{10} : \frac{8}{25} =$

b) $\frac{3}{4} : \frac{21}{22} =$

c) $\frac{4}{5} : \frac{6}{17} =$

d) $\frac{1}{30} : \frac{1}{34} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{5} : \frac{9}{25} = \frac{2}{5} \cdot \frac{25}{9} = \frac{2 \cdot 5}{1 \cdot 9} = 1 \frac{1}{9} \quad \text{b) } \frac{1}{32} : \frac{1}{40} = \frac{1}{32} \cdot \frac{40}{1} = \frac{1 \cdot 5}{4 \cdot 1} = 1 \frac{1}{4}$$

$$\text{c) } \frac{1}{10} : \frac{5}{36} = \frac{1}{10} \cdot \frac{36}{5} = \frac{1 \cdot 18}{5 \cdot 5} = \frac{18}{25} \quad \text{d) } \frac{1}{4} : \frac{23}{28} = \frac{1}{4} \cdot \frac{28}{23} = \frac{1 \cdot 7}{1 \cdot 23} = \frac{7}{23}$$

$$\textcircled{2} \quad \text{a) } \frac{3}{22} : \frac{1}{11} = \frac{3}{22} \cdot \frac{11}{1} = \frac{3 \cdot 1}{2 \cdot 1} = 1 \frac{1}{2} \quad \text{b) } \frac{10}{39} : \frac{2}{9} = \frac{10}{39} \cdot \frac{9}{2} = \frac{5 \cdot 3}{13 \cdot 1} = 1 \frac{2}{13}$$

$$\text{c) } \frac{2}{23} : \frac{4}{23} = \frac{2}{23} \cdot \frac{23}{4} = \frac{1 \cdot 1}{1 \cdot 2} = \frac{1}{2} \quad \text{d) } \frac{3}{5} : \frac{11}{30} = \frac{3}{5} \cdot \frac{30}{11} = \frac{3 \cdot 6}{1 \cdot 11} = 1 \frac{7}{11}$$

$$\textcircled{3} \quad \text{a) } \frac{13}{20} : \frac{1}{6} = \frac{13}{20} \cdot \frac{6}{1} = \frac{13 \cdot 3}{10 \cdot 1} = 3 \frac{9}{10} \quad \text{b) } \frac{3}{8} : \frac{6}{7} = \frac{3}{8} \cdot \frac{7}{6} = \frac{1 \cdot 7}{8 \cdot 2} = \frac{7}{16}$$

$$\text{c) } \frac{2}{37} : \frac{2}{45} = \frac{2}{37} \cdot \frac{45}{2} = \frac{1 \cdot 45}{37 \cdot 1} = 1 \frac{8}{37} \quad \text{d) } \frac{5}{12} : \frac{1}{9} = \frac{5}{12} \cdot \frac{9}{1} = \frac{5 \cdot 3}{4 \cdot 1} = 3 \frac{3}{4}$$

$$\textcircled{4} \quad \text{a) } \frac{1}{14} : \frac{5}{26} = \frac{1}{14} \cdot \frac{26}{5} = \frac{1 \cdot 13}{7 \cdot 5} = \frac{13}{35} \quad \text{b) } \frac{2}{41} : \frac{2}{35} = \frac{2}{41} \cdot \frac{35}{2} = \frac{1 \cdot 35}{41 \cdot 1} = \frac{35}{41}$$

$$\text{c) } \frac{19}{30} : \frac{1}{5} = \frac{19}{30} \cdot \frac{5}{1} = \frac{19 \cdot 1}{6 \cdot 1} = 3 \frac{1}{6} \quad \text{d) } \frac{1}{3} : \frac{4}{27} = \frac{1}{3} \cdot \frac{27}{4} = \frac{1 \cdot 9}{1 \cdot 4} = 2 \frac{1}{4}$$

$$\textcircled{5} \quad \text{a) } \frac{1}{10} : \frac{8}{25} = \frac{1}{10} \cdot \frac{25}{8} = \frac{1 \cdot 5}{2 \cdot 8} = \frac{5}{16} \quad \text{b) } \frac{3}{4} : \frac{21}{22} = \frac{3}{4} \cdot \frac{22}{21} = \frac{1 \cdot 11}{2 \cdot 7} = \frac{11}{14}$$

$$\text{c) } \frac{4}{5} : \frac{6}{17} = \frac{4}{5} \cdot \frac{17}{6} = \frac{2 \cdot 17}{5 \cdot 3} = 2 \frac{4}{15} \quad \text{d) } \frac{1}{30} : \frac{1}{34} = \frac{1}{30} \cdot \frac{34}{1} = \frac{1 \cdot 17}{15 \cdot 1} = 1 \frac{2}{15}$$