

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

① a)  $\frac{4}{45} : \frac{2}{19} =$

b)  $\frac{12}{25} : \frac{3}{8} =$

c)  $\frac{2}{7} : \frac{8}{29} =$

d)  $\frac{1}{33} : \frac{2}{39} =$

② a)  $\frac{1}{3} : \frac{17}{30} =$

b)  $\frac{11}{34} : \frac{1}{8} =$

c)  $\frac{2}{13} : \frac{2}{21} =$

d)  $\frac{3}{25} : \frac{3}{11} =$

③ a)  $\frac{3}{4} : \frac{7}{24} =$

b)  $\frac{1}{16} : \frac{1}{36} =$

c)  $\frac{1}{14} : \frac{5}{26} =$

d)  $\frac{7}{18} : \frac{4}{9} =$

④ a)  $\frac{1}{28} : \frac{1}{42} =$

b)  $\frac{4}{5} : \frac{3}{5} =$

c)  $\frac{6}{11} : \frac{9}{14} =$

d)  $\frac{2}{7} : \frac{2}{23} =$

⑤ a)  $\frac{8}{9} : \frac{5}{6} =$

b)  $\frac{1}{24} : \frac{1}{2} =$

c)  $\frac{3}{11} : \frac{9}{32} =$

d)  $\frac{3}{4} : \frac{5}{18} =$

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

$$\textcircled{1} \quad \text{a) } \frac{4}{45} : \frac{2}{19} = \frac{4}{45} \cdot \frac{19}{2} = \frac{2 \cdot 19}{45 \cdot 1} = \frac{38}{45} \quad \text{b) } \frac{12}{25} : \frac{3}{8} = \frac{12}{25} \cdot \frac{8}{3} = \frac{4 \cdot 8}{25 \cdot 1} = 1 \frac{7}{25}$$

$$\text{c) } \frac{2}{7} : \frac{8}{29} = \frac{2}{7} \cdot \frac{29}{8} = \frac{1 \cdot 29}{7 \cdot 4} = 1 \frac{1}{28} \quad \text{d) } \frac{1}{33} : \frac{2}{39} = \frac{1}{33} \cdot \frac{39}{2} = \frac{1 \cdot 13}{11 \cdot 2} = \frac{13}{22}$$

$$\textcircled{2} \quad \text{a) } \frac{1}{3} : \frac{17}{30} = \frac{1}{3} \cdot \frac{30}{17} = \frac{1 \cdot 10}{1 \cdot 17} = \frac{10}{17} \quad \text{b) } \frac{11}{34} : \frac{1}{8} = \frac{11}{34} \cdot \frac{8}{1} = \frac{11 \cdot 4}{17 \cdot 1} = 2 \frac{10}{17}$$

$$\text{c) } \frac{2}{13} : \frac{2}{21} = \frac{2}{13} \cdot \frac{21}{2} = \frac{1 \cdot 21}{13 \cdot 1} = 1 \frac{8}{13} \quad \text{d) } \frac{3}{25} : \frac{3}{11} = \frac{3}{25} \cdot \frac{11}{3} = \frac{1 \cdot 11}{25 \cdot 1} = \frac{11}{25}$$

$$\textcircled{3} \quad \text{a) } \frac{3}{4} : \frac{7}{24} = \frac{3}{4} \cdot \frac{24}{7} = \frac{3 \cdot 6}{1 \cdot 7} = 2 \frac{4}{7} \quad \text{b) } \frac{1}{16} : \frac{1}{36} = \frac{1}{16} \cdot \frac{36}{1} = \frac{1 \cdot 9}{4 \cdot 1} = 2 \frac{1}{4}$$

$$\text{c) } \frac{1}{14} : \frac{5}{26} = \frac{1}{14} \cdot \frac{26}{5} = \frac{1 \cdot 13}{7 \cdot 5} = \frac{13}{35} \quad \text{d) } \frac{7}{18} : \frac{4}{9} = \frac{7}{18} \cdot \frac{9}{4} = \frac{7 \cdot 1}{2 \cdot 4} = \frac{7}{8}$$

$$\textcircled{4} \quad \text{a) } \frac{1}{28} : \frac{1}{42} = \frac{1}{28} \cdot \frac{42}{1} = \frac{1 \cdot 3}{2 \cdot 1} = 1 \frac{1}{2} \quad \text{b) } \frac{4}{5} : \frac{3}{5} = \frac{4}{5} \cdot \frac{5}{3} = \frac{4 \cdot 1}{1 \cdot 3} = 1 \frac{1}{3}$$

$$\text{c) } \frac{6}{11} : \frac{9}{14} = \frac{6}{11} \cdot \frac{14}{9} = \frac{2 \cdot 14}{11 \cdot 3} = \frac{28}{33} \quad \text{d) } \frac{2}{7} : \frac{2}{23} = \frac{2}{7} \cdot \frac{23}{2} = \frac{1 \cdot 23}{7 \cdot 1} = 3 \frac{2}{7}$$

$$\textcircled{5} \quad \text{a) } \frac{8}{9} : \frac{5}{6} = \frac{8}{9} \cdot \frac{6}{5} = \frac{8 \cdot 2}{3 \cdot 5} = 1 \frac{1}{15} \quad \text{b) } \frac{1}{24} : \frac{1}{2} = \frac{1}{24} \cdot \frac{2}{1} = \frac{1 \cdot 1}{12 \cdot 1} = \frac{1}{12}$$

$$\text{c) } \frac{3}{11} : \frac{9}{32} = \frac{3}{11} \cdot \frac{32}{9} = \frac{1 \cdot 32}{11 \cdot 3} = \frac{32}{33} \quad \text{d) } \frac{3}{4} : \frac{5}{18} = \frac{3}{4} \cdot \frac{18}{5} = \frac{3 \cdot 9}{2 \cdot 5} = 2 \frac{7}{10}$$