

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

① a) $\frac{2}{19} : \frac{4}{7} =$

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

c) $\frac{3}{4} : \frac{5}{28} =$

d) $\frac{1}{6} : \frac{8}{15} =$

② a) $\frac{1}{12} : \frac{1}{44} =$

b) $\frac{11}{25} : \frac{2}{5} =$

c) $\frac{2}{7} : \frac{8}{23} =$

d) $\frac{1}{33} : \frac{1}{36} =$

③ a) $\frac{2}{3} : \frac{4}{29} =$

b) $\frac{1}{5} : \frac{17}{20} =$

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

d) $\frac{1}{10} : \frac{3}{34} =$

④ a) $\frac{7}{12} : \frac{7}{8} =$

b) $\frac{4}{39} : \frac{2}{9} =$

c) $\frac{1}{4} : \frac{5}{36} =$

d) $\frac{1}{3} : \frac{1}{33} =$

⑤ a) $\frac{2}{5} : \frac{13}{30} =$

b) $\frac{5}{9} : \frac{5}{17} =$

c) $\frac{15}{32} : \frac{1}{6} =$

d) $\frac{1}{7} : \frac{10}{21} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{19} : \frac{4}{7} = \frac{2}{19} \cdot \frac{7}{4} = \frac{1 \cdot 7}{19 \cdot 2} = \frac{7}{38} \quad \text{b) } \frac{1}{2} : \frac{1}{24} = \frac{1}{2} \cdot \frac{24}{1} = \frac{1 \cdot 12}{1 \cdot 1} = 12$$

$$\text{c) } \frac{3}{4} : \frac{5}{28} = \frac{3}{4} \cdot \frac{28}{5} = \frac{3 \cdot 7}{1 \cdot 5} = 4 \frac{1}{5} \quad \text{d) } \frac{1}{6} : \frac{8}{15} = \frac{1}{6} \cdot \frac{15}{8} = \frac{1 \cdot 5}{2 \cdot 8} = \frac{5}{16}$$

$$\textcircled{2} \quad \text{a) } \frac{1}{12} : \frac{1}{44} = \frac{1}{12} \cdot \frac{44}{1} = \frac{1 \cdot 11}{3 \cdot 1} = 3 \frac{2}{3} \quad \text{b) } \frac{11}{25} : \frac{2}{5} = \frac{11}{25} \cdot \frac{5}{2} = \frac{11 \cdot 1}{5 \cdot 2} = 1 \frac{1}{10}$$

$$\text{c) } \frac{2}{7} : \frac{8}{23} = \frac{2}{7} \cdot \frac{23}{8} = \frac{1 \cdot 23}{7 \cdot 4} = \frac{23}{28} \quad \text{d) } \frac{1}{33} : \frac{1}{36} = \frac{1}{33} \cdot \frac{36}{1} = \frac{1 \cdot 12}{11 \cdot 1} = 1 \frac{1}{11}$$

$$\textcircled{3} \quad \text{a) } \frac{2}{3} : \frac{4}{29} = \frac{2}{3} \cdot \frac{29}{4} = \frac{1 \cdot 29}{3 \cdot 2} = 4 \frac{5}{6} \quad \text{b) } \frac{1}{5} : \frac{17}{20} = \frac{1}{5} \cdot \frac{20}{17} = \frac{1 \cdot 4}{1 \cdot 17} = \frac{4}{17}$$

$$\text{c) } \frac{1}{6} : \frac{1}{6} = \frac{1}{6} \cdot \frac{6}{1} = \frac{1 \cdot 1}{1 \cdot 1} = 1 \quad \text{d) } \frac{1}{10} : \frac{3}{34} = \frac{1}{10} \cdot \frac{34}{3} = \frac{1 \cdot 17}{5 \cdot 3} = 1 \frac{2}{15}$$

$$\textcircled{4} \quad \text{a) } \frac{7}{12} : \frac{7}{8} = \frac{7}{12} \cdot \frac{8}{7} = \frac{1 \cdot 2}{3 \cdot 1} = \frac{2}{3} \quad \text{b) } \frac{4}{39} : \frac{2}{9} = \frac{4}{39} \cdot \frac{9}{2} = \frac{2 \cdot 3}{13 \cdot 1} = \frac{6}{13}$$

$$\text{c) } \frac{1}{4} : \frac{5}{36} = \frac{1}{4} \cdot \frac{36}{5} = \frac{1 \cdot 9}{1 \cdot 5} = 1 \frac{4}{5} \quad \text{d) } \frac{1}{3} : \frac{1}{33} = \frac{1}{3} \cdot \frac{33}{1} = \frac{1 \cdot 11}{1 \cdot 1} = 11$$

$$\textcircled{5} \quad \text{a) } \frac{2}{5} : \frac{13}{30} = \frac{2}{5} \cdot \frac{30}{13} = \frac{2 \cdot 6}{1 \cdot 13} = \frac{12}{13} \quad \text{b) } \frac{5}{9} : \frac{5}{17} = \frac{5}{9} \cdot \frac{17}{5} = \frac{1 \cdot 17}{9 \cdot 1} = 1 \frac{8}{9}$$

$$\text{c) } \frac{15}{32} : \frac{1}{6} = \frac{15}{32} \cdot \frac{6}{1} = \frac{15 \cdot 3}{16 \cdot 1} = 2 \frac{13}{16} \quad \text{d) } \frac{1}{7} : \frac{10}{21} = \frac{1}{7} \cdot \frac{21}{10} = \frac{1 \cdot 3}{1 \cdot 10} = \frac{3}{10}$$