

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

① a) $\frac{3}{17} : \frac{3}{25} =$

b) $\frac{19}{30} : \frac{1}{4} =$

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

d) $\frac{1}{6} : \frac{5}{27} =$

② a) $\frac{2}{3} : \frac{4}{7} =$

b) $\frac{3}{5} : \frac{12}{31} =$

c) $\frac{2}{41} : \frac{2}{21} =$

d) $\frac{1}{32} : \frac{3}{14} =$

③ a) $\frac{5}{18} : \frac{5}{18} =$

b) $\frac{4}{5} : \frac{17}{25} =$

c) $\frac{13}{20} : \frac{3}{4} =$

d) $\frac{10}{39} : \frac{2}{7} =$

④ a) $\frac{3}{10} : \frac{7}{26} =$

b) $\frac{4}{17} : \frac{4}{19} =$

c) $\frac{5}{16} : \frac{5}{14} =$

d) $\frac{9}{44} : \frac{1}{6} =$

⑤ a) $\frac{2}{33} : \frac{2}{35} =$

b) $\frac{9}{28} : \frac{3}{5} =$

c) $\frac{2}{15} : \frac{1}{25} =$

d) $\frac{2}{3} : \frac{20}{37} =$

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

$$\textcircled{1} \quad \text{a) } \frac{3}{17} : \frac{3}{25} = \frac{3}{17} \cdot \frac{25}{3} = \frac{1 \cdot 25}{17 \cdot 1} = 1 \frac{8}{17} \quad \text{b) } \frac{19}{30} : \frac{1}{4} = \frac{19}{30} \cdot \frac{4}{1} = \frac{19 \cdot 2}{15 \cdot 1} = 2 \frac{8}{15}$$

$$\text{c) } \frac{2}{9} : \frac{10}{39} = \frac{2}{9} \cdot \frac{39}{10} = \frac{1 \cdot 13}{3 \cdot 5} = \frac{13}{15} \quad \text{d) } \frac{1}{6} : \frac{5}{27} = \frac{1}{6} \cdot \frac{27}{5} = \frac{1 \cdot 9}{2 \cdot 5} = \frac{9}{10}$$

$$\textcircled{2} \quad \text{a) } \frac{2}{3} : \frac{4}{7} = \frac{2}{3} \cdot \frac{7}{4} = \frac{1 \cdot 7}{3 \cdot 2} = 1 \frac{1}{6} \quad \text{b) } \frac{3}{5} : \frac{12}{31} = \frac{3}{5} \cdot \frac{31}{12} = \frac{1 \cdot 31}{5 \cdot 4} = 1 \frac{11}{20}$$

$$\text{c) } \frac{2}{41} : \frac{2}{21} = \frac{2}{41} \cdot \frac{21}{2} = \frac{1 \cdot 21}{41 \cdot 1} = \frac{21}{41} \quad \text{d) } \frac{1}{32} : \frac{3}{14} = \frac{1}{32} \cdot \frac{14}{3} = \frac{1 \cdot 7}{16 \cdot 3} = \frac{7}{48}$$

$$\textcircled{3} \quad \text{a) } \frac{5}{18} : \frac{5}{18} = \frac{5}{18} \cdot \frac{18}{5} = \frac{1 \cdot 1}{1 \cdot 1} = 1 \quad \text{b) } \frac{4}{5} : \frac{17}{25} = \frac{4}{5} \cdot \frac{25}{17} = \frac{4 \cdot 5}{1 \cdot 17} = 1 \frac{3}{17}$$

$$\text{c) } \frac{13}{20} : \frac{3}{4} = \frac{13}{20} \cdot \frac{4}{3} = \frac{13 \cdot 1}{5 \cdot 3} = \frac{13}{15} \quad \text{d) } \frac{10}{39} : \frac{2}{7} = \frac{10}{39} \cdot \frac{7}{2} = \frac{5 \cdot 7}{39 \cdot 1} = \frac{35}{39}$$

$$\textcircled{4} \quad \text{a) } \frac{3}{10} : \frac{7}{26} = \frac{3}{10} \cdot \frac{26}{7} = \frac{3 \cdot 13}{5 \cdot 7} = 1 \frac{4}{35} \quad \text{b) } \frac{4}{17} : \frac{4}{19} = \frac{4}{17} \cdot \frac{19}{4} = \frac{1 \cdot 19}{17 \cdot 1} = 1 \frac{2}{17}$$

$$\text{c) } \frac{5}{16} : \frac{5}{14} = \frac{5}{16} \cdot \frac{14}{5} = \frac{1 \cdot 7}{8 \cdot 1} = \frac{7}{8} \quad \text{d) } \frac{9}{44} : \frac{1}{6} = \frac{9}{44} \cdot \frac{6}{1} = \frac{9 \cdot 3}{22 \cdot 1} = 1 \frac{5}{22}$$

$$\textcircled{5} \quad \text{a) } \frac{2}{33} : \frac{2}{35} = \frac{2}{33} \cdot \frac{35}{2} = \frac{1 \cdot 35}{33 \cdot 1} = 1 \frac{2}{33} \quad \text{b) } \frac{9}{28} : \frac{3}{5} = \frac{9}{28} \cdot \frac{5}{3} = \frac{3 \cdot 5}{28 \cdot 1} = \frac{15}{28}$$

$$\text{c) } \frac{2}{15} : \frac{1}{25} = \frac{2}{15} \cdot \frac{25}{1} = \frac{2 \cdot 5}{3 \cdot 1} = 3 \frac{1}{3} \quad \text{d) } \frac{2}{3} : \frac{20}{37} = \frac{2}{3} \cdot \frac{37}{20} = \frac{1 \cdot 37}{3 \cdot 10} = 1 \frac{7}{30}$$