

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

① a)  $\frac{1}{4} : \frac{17}{20} =$

b)  $\frac{3}{16} : \frac{1}{6} =$

c)  $\frac{2}{35} : \frac{2}{39} =$

d)  $\frac{2}{3} : \frac{28}{31} =$

② a)  $\frac{5}{33} : \frac{1}{11} =$

b)  $\frac{3}{8} : \frac{9}{28} =$

c)  $\frac{2}{13} : \frac{6}{19} =$

d)  $\frac{7}{9} : \frac{1}{9} =$

③ a)  $\frac{17}{20} : \frac{3}{4} =$

b)  $\frac{1}{18} : \frac{4}{27} =$

c)  $\frac{4}{13} : \frac{2}{15} =$

d)  $\frac{3}{19} : \frac{3}{28} =$

④ a)  $\frac{1}{5} : \frac{19}{35} =$

b)  $\frac{1}{6} : \frac{16}{21} =$

c)  $\frac{1}{34} : \frac{1}{44} =$

d)  $\frac{5}{17} : \frac{3}{17} =$

⑤ a)  $\frac{18}{41} : \frac{2}{3} =$

b)  $\frac{11}{28} : \frac{1}{8} =$

c)  $\frac{12}{13} : \frac{3}{7} =$

d)  $\frac{2}{15} : \frac{5}{21} =$

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

$$\textcircled{1} \quad \text{a) } \frac{1}{4} : \frac{17}{20} = \frac{1}{4} \cdot \frac{20}{17} = \frac{1 \cdot 5}{1 \cdot 17} = \frac{5}{17} \quad \text{b) } \frac{3}{16} : \frac{1}{6} = \frac{3}{16} \cdot \frac{6}{1} = \frac{3 \cdot 3}{8 \cdot 1} = 1 \frac{1}{8}$$

$$\text{c) } \frac{2}{35} : \frac{2}{39} = \frac{2}{35} \cdot \frac{39}{2} = \frac{1 \cdot 39}{35 \cdot 1} = 1 \frac{4}{35} \quad \text{d) } \frac{2}{3} : \frac{28}{31} = \frac{2}{3} \cdot \frac{31}{28} = \frac{1 \cdot 31}{3 \cdot 14} = \frac{31}{42}$$

$$\textcircled{2} \quad \text{a) } \frac{5}{33} : \frac{1}{11} = \frac{5}{33} \cdot \frac{11}{1} = \frac{5 \cdot 1}{3 \cdot 1} = 1 \frac{2}{3} \quad \text{b) } \frac{3}{8} : \frac{9}{28} = \frac{3}{8} \cdot \frac{28}{9} = \frac{1 \cdot 7}{2 \cdot 3} = 1 \frac{1}{6}$$

$$\text{c) } \frac{2}{13} : \frac{6}{19} = \frac{2}{13} \cdot \frac{19}{6} = \frac{1 \cdot 19}{13 \cdot 3} = \frac{19}{39} \quad \text{d) } \frac{7}{9} : \frac{1}{9} = \frac{7}{9} \cdot \frac{9}{1} = \frac{7 \cdot 1}{1 \cdot 1} = 7$$

$$\textcircled{3} \quad \text{a) } \frac{17}{20} : \frac{3}{4} = \frac{17}{20} \cdot \frac{4}{3} = \frac{17 \cdot 1}{5 \cdot 3} = 1 \frac{2}{15} \quad \text{b) } \frac{1}{18} : \frac{4}{27} = \frac{1}{18} \cdot \frac{27}{4} = \frac{1 \cdot 3}{2 \cdot 4} = \frac{3}{8}$$

$$\text{c) } \frac{4}{13} : \frac{2}{15} = \frac{4}{13} \cdot \frac{15}{2} = \frac{2 \cdot 15}{13 \cdot 1} = 2 \frac{4}{13} \quad \text{d) } \frac{3}{19} : \frac{3}{28} = \frac{3}{19} \cdot \frac{28}{3} = \frac{1 \cdot 28}{19 \cdot 1} = 1 \frac{9}{19}$$

$$\textcircled{4} \quad \text{a) } \frac{1}{5} : \frac{19}{35} = \frac{1}{5} \cdot \frac{35}{19} = \frac{1 \cdot 7}{1 \cdot 19} = \frac{7}{19} \quad \text{b) } \frac{1}{6} : \frac{16}{21} = \frac{1}{6} \cdot \frac{21}{16} = \frac{1 \cdot 7}{2 \cdot 16} = \frac{7}{32}$$

$$\text{c) } \frac{1}{34} : \frac{1}{44} = \frac{1}{34} \cdot \frac{44}{1} = \frac{1 \cdot 22}{17 \cdot 1} = 1 \frac{5}{17} \quad \text{d) } \frac{5}{17} : \frac{3}{17} = \frac{5}{17} \cdot \frac{17}{3} = \frac{5 \cdot 1}{1 \cdot 3} = 1 \frac{2}{3}$$

$$\textcircled{5} \quad \text{a) } \frac{18}{41} : \frac{2}{3} = \frac{18}{41} \cdot \frac{3}{2} = \frac{9 \cdot 3}{41 \cdot 1} = \frac{27}{41} \quad \text{b) } \frac{11}{28} : \frac{1}{8} = \frac{11}{28} \cdot \frac{8}{1} = \frac{11 \cdot 2}{7 \cdot 1} = 3 \frac{1}{7}$$

$$\text{c) } \frac{12}{13} : \frac{3}{7} = \frac{12}{13} \cdot \frac{7}{3} = \frac{4 \cdot 7}{13 \cdot 1} = 2 \frac{2}{13} \quad \text{d) } \frac{2}{15} : \frac{5}{21} = \frac{2}{15} \cdot \frac{21}{5} = \frac{2 \cdot 7}{5 \cdot 5} = \frac{14}{25}$$