

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

① a) $\frac{3}{7} : \frac{9}{28} =$

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

c) $\frac{1}{35} : \frac{2}{45} =$

d) $\frac{3}{32} : \frac{3}{11} =$

② a) $\frac{4}{15} : \frac{5}{21} =$

b) $\frac{2}{9} : \frac{1}{33} =$

c) $\frac{1}{28} : \frac{3}{44} =$

d) $\frac{7}{11} : \frac{9}{11} =$

③ a) $\frac{2}{3} : \frac{10}{19} =$

b) $\frac{1}{18} : \frac{2}{39} =$

c) $\frac{1}{2} : \frac{19}{22} =$

d) $\frac{3}{16} : \frac{1}{20} =$

④ a) $\frac{3}{4} : \frac{15}{26} =$

b) $\frac{3}{8} : \frac{3}{5} =$

c) $\frac{5}{9} : \frac{2}{9} =$

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

⑤ a) $\frac{2}{3} : \frac{30}{31} =$

b) $\frac{3}{7} : \frac{9}{11} =$

c) $\frac{9}{16} : \frac{3}{10} =$

d) $\frac{6}{19} : \frac{2}{15} =$

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

$$\textcircled{1} \quad \text{a) } \frac{3}{7} : \frac{9}{28} = \frac{3}{7} \cdot \frac{28}{9} = \frac{1 \cdot 4}{1 \cdot 3} = 1 \frac{1}{3} \quad \text{b) } \frac{11}{34} : \frac{1}{8} = \frac{11}{34} \cdot \frac{8}{1} = \frac{11 \cdot 4}{17 \cdot 1} = 2 \frac{10}{17}$$

$$\text{c) } \frac{1}{35} : \frac{2}{45} = \frac{1}{35} \cdot \frac{45}{2} = \frac{1 \cdot 9}{7 \cdot 2} = \frac{9}{14} \quad \text{d) } \frac{3}{32} : \frac{3}{11} = \frac{3}{32} \cdot \frac{11}{3} = \frac{1 \cdot 11}{32 \cdot 1} = \frac{11}{32}$$

$$\textcircled{2} \quad \text{a) } \frac{4}{15} : \frac{5}{21} = \frac{4}{15} \cdot \frac{21}{5} = \frac{4 \cdot 7}{5 \cdot 5} = 1 \frac{3}{25} \quad \text{b) } \frac{2}{9} : \frac{1}{33} = \frac{2}{9} \cdot \frac{33}{1} = \frac{2 \cdot 11}{3 \cdot 1} = 7 \frac{1}{3}$$

$$\text{c) } \frac{1}{28} : \frac{3}{44} = \frac{1}{28} \cdot \frac{44}{3} = \frac{1 \cdot 11}{7 \cdot 3} = \frac{11}{21} \quad \text{d) } \frac{7}{11} : \frac{9}{11} = \frac{7}{11} \cdot \frac{11}{9} = \frac{7 \cdot 1}{1 \cdot 9} = \frac{7}{9}$$

$$\textcircled{3} \quad \text{a) } \frac{2}{3} : \frac{10}{19} = \frac{2}{3} \cdot \frac{19}{10} = \frac{1 \cdot 19}{3 \cdot 5} = 1 \frac{4}{15} \quad \text{b) } \frac{1}{18} : \frac{2}{39} = \frac{1}{18} \cdot \frac{39}{2} = \frac{1 \cdot 13}{6 \cdot 2} = 1 \frac{1}{12}$$

$$\text{c) } \frac{1}{2} : \frac{19}{22} = \frac{1}{2} \cdot \frac{22}{19} = \frac{1 \cdot 11}{1 \cdot 19} = \frac{11}{19} \quad \text{d) } \frac{3}{16} : \frac{1}{20} = \frac{3}{16} \cdot \frac{20}{1} = \frac{3 \cdot 5}{4 \cdot 1} = 3 \frac{3}{4}$$

$$\textcircled{4} \quad \text{a) } \frac{3}{4} : \frac{15}{26} = \frac{3}{4} \cdot \frac{26}{15} = \frac{1 \cdot 13}{2 \cdot 5} = 1 \frac{3}{10} \quad \text{b) } \frac{3}{8} : \frac{3}{5} = \frac{3}{8} \cdot \frac{5}{3} = \frac{1 \cdot 5}{8 \cdot 1} = \frac{5}{8}$$

$$\text{c) } \frac{5}{9} : \frac{2}{9} = \frac{5}{9} \cdot \frac{9}{2} = \frac{5 \cdot 1}{1 \cdot 2} = 2 \frac{1}{2} \quad \text{d) } \frac{1}{34} : \frac{1}{44} = \frac{1}{34} \cdot \frac{44}{1} = \frac{1 \cdot 22}{17 \cdot 1} = 1 \frac{5}{17}$$

$$\textcircled{5} \quad \text{a) } \frac{2}{3} : \frac{30}{31} = \frac{2}{3} \cdot \frac{31}{30} = \frac{1 \cdot 31}{3 \cdot 15} = \frac{31}{45} \quad \text{b) } \frac{3}{7} : \frac{9}{11} = \frac{3}{7} \cdot \frac{11}{9} = \frac{1 \cdot 11}{7 \cdot 3} = \frac{11}{21}$$

$$\text{c) } \frac{9}{16} : \frac{3}{10} = \frac{9}{16} \cdot \frac{10}{3} = \frac{3 \cdot 5}{8 \cdot 1} = 1 \frac{7}{8} \quad \text{d) } \frac{6}{19} : \frac{2}{15} = \frac{6}{19} \cdot \frac{15}{2} = \frac{3 \cdot 15}{19 \cdot 1} = 2 \frac{7}{19}$$