

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

① a) $\frac{17}{35} : \frac{2}{5} =$

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

c) $\frac{1}{34} : \frac{1}{6} =$

d) $\frac{5}{7} : \frac{5}{17} =$

② a) $\frac{8}{25} : \frac{3}{10} =$

b) $\frac{1}{2} : \frac{19}{36} =$

c) $\frac{23}{32} : \frac{1}{4} =$

d) $\frac{6}{13} : \frac{2}{11} =$

③ a) $\frac{3}{8} : \frac{12}{25} =$

b) $\frac{1}{18} : \frac{1}{44} =$

c) $\frac{2}{3} : \frac{7}{33} =$

d) $\frac{5}{16} : \frac{3}{4} =$

④ a) $\frac{8}{19} : \frac{2}{5} =$

b) $\frac{11}{34} : \frac{1}{6} =$

c) $\frac{1}{9} : \frac{4}{33} =$

d) $\frac{1}{12} : \frac{5}{18} =$

⑤ a) $\frac{3}{7} : \frac{3}{13} =$

b) $\frac{1}{22} : \frac{1}{42} =$

c) $\frac{1}{4} : \frac{17}{36} =$

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

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

$$\textcircled{1} \quad \text{a) } \frac{17}{35} : \frac{2}{5} = \frac{17}{35} \cdot \frac{5}{2} = \frac{17 \cdot 1}{7 \cdot 2} = 1 \frac{3}{14} \quad \text{b) } \frac{3}{28} : \frac{3}{28} = \frac{3}{28} \cdot \frac{28}{3} = \frac{1 \cdot 1}{1 \cdot 1} = 1$$

$$\text{c) } \frac{1}{34} : \frac{1}{6} = \frac{1}{34} \cdot \frac{6}{1} = \frac{1 \cdot 3}{17 \cdot 1} = \frac{3}{17} \quad \text{d) } \frac{5}{7} : \frac{5}{17} = \frac{5}{7} \cdot \frac{17}{5} = \frac{1 \cdot 17}{7 \cdot 1} = 2 \frac{3}{7}$$

$$\textcircled{2} \quad \text{a) } \frac{8}{25} : \frac{3}{10} = \frac{8}{25} \cdot \frac{10}{3} = \frac{8 \cdot 2}{5 \cdot 3} = 1 \frac{1}{15} \quad \text{b) } \frac{1}{2} : \frac{19}{36} = \frac{1}{2} \cdot \frac{36}{19} = \frac{1 \cdot 18}{1 \cdot 19} = \frac{18}{19}$$

$$\text{c) } \frac{23}{32} : \frac{1}{4} = \frac{23}{32} \cdot \frac{4}{1} = \frac{23 \cdot 1}{8 \cdot 1} = 2 \frac{7}{8} \quad \text{d) } \frac{6}{13} : \frac{2}{11} = \frac{6}{13} \cdot \frac{11}{2} = \frac{3 \cdot 11}{13 \cdot 1} = 2 \frac{7}{13}$$

$$\textcircled{3} \quad \text{a) } \frac{3}{8} : \frac{12}{25} = \frac{3}{8} \cdot \frac{25}{12} = \frac{1 \cdot 25}{8 \cdot 4} = \frac{25}{32} \quad \text{b) } \frac{1}{18} : \frac{1}{44} = \frac{1}{18} \cdot \frac{44}{1} = \frac{1 \cdot 22}{9 \cdot 1} = 2 \frac{4}{9}$$

$$\text{c) } \frac{2}{3} : \frac{7}{33} = \frac{2}{3} \cdot \frac{33}{7} = \frac{2 \cdot 11}{1 \cdot 7} = 3 \frac{1}{7} \quad \text{d) } \frac{5}{16} : \frac{3}{4} = \frac{5}{16} \cdot \frac{4}{3} = \frac{5 \cdot 1}{4 \cdot 3} = \frac{5}{12}$$

$$\textcircled{4} \quad \text{a) } \frac{8}{19} : \frac{2}{5} = \frac{8}{19} \cdot \frac{5}{2} = \frac{4 \cdot 5}{19 \cdot 1} = 1 \frac{1}{19} \quad \text{b) } \frac{11}{34} : \frac{1}{6} = \frac{11}{34} \cdot \frac{6}{1} = \frac{11 \cdot 3}{17 \cdot 1} = 1 \frac{16}{17}$$

$$\text{c) } \frac{1}{9} : \frac{4}{33} = \frac{1}{9} \cdot \frac{33}{4} = \frac{1 \cdot 11}{3 \cdot 4} = \frac{11}{12} \quad \text{d) } \frac{1}{12} : \frac{5}{18} = \frac{1}{12} \cdot \frac{18}{5} = \frac{1 \cdot 3}{2 \cdot 5} = \frac{3}{10}$$

$$\textcircled{5} \quad \text{a) } \frac{3}{7} : \frac{3}{13} = \frac{3}{7} \cdot \frac{13}{3} = \frac{1 \cdot 13}{7 \cdot 1} = 1 \frac{6}{7} \quad \text{b) } \frac{1}{22} : \frac{1}{42} = \frac{1}{22} \cdot \frac{42}{1} = \frac{1 \cdot 21}{11 \cdot 1} = 1 \frac{10}{11}$$

$$\text{c) } \frac{1}{4} : \frac{17}{36} = \frac{1}{4} \cdot \frac{36}{17} = \frac{1 \cdot 9}{1 \cdot 17} = \frac{9}{17} \quad \text{d) } \frac{4}{19} : \frac{4}{17} = \frac{4}{19} \cdot \frac{17}{4} = \frac{1 \cdot 17}{19 \cdot 1} = \frac{17}{19}$$