

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

① a)  $\frac{2}{27} : \frac{2}{33} =$

b)  $\frac{12}{35} : \frac{1}{5} =$

c)  $\frac{21}{32} : \frac{3}{4} =$

d)  $\frac{3}{14} : \frac{7}{26} =$

② a)  $\frac{13}{42} : \frac{1}{6} =$

b)  $\frac{4}{5} : \frac{2}{5} =$

c)  $\frac{1}{2} : \frac{23}{30} =$

d)  $\frac{5}{34} : \frac{1}{16} =$

③ a)  $\frac{2}{13} : \frac{2}{27} =$

b)  $\frac{1}{14} : \frac{3}{22} =$

c)  $\frac{3}{44} : \frac{1}{32} =$

d)  $\frac{4}{19} : \frac{2}{17} =$

④ a)  $\frac{2}{9} : \frac{11}{15} =$

b)  $\frac{1}{35} : \frac{1}{42} =$

c)  $\frac{2}{7} : \frac{2}{29} =$

d)  $\frac{1}{5} : \frac{17}{40} =$

⑤ a)  $\frac{6}{17} : \frac{3}{8} =$

b)  $\frac{9}{10} : \frac{6}{11} =$

c)  $\frac{8}{9} : \frac{5}{6} =$

d)  $\frac{1}{16} : \frac{3}{40} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{27} : \frac{2}{33} = \frac{2}{27} \cdot \frac{33}{2} = \frac{1 \cdot 11}{9 \cdot 1} = 1 \frac{2}{9} \quad \text{b) } \frac{12}{35} : \frac{1}{5} = \frac{12}{35} \cdot \frac{5}{1} = \frac{12 \cdot 1}{7 \cdot 1} = 1 \frac{5}{7}$$

$$\text{c) } \frac{21}{32} : \frac{3}{4} = \frac{21}{32} \cdot \frac{4}{3} = \frac{7 \cdot 1}{8 \cdot 1} = \frac{7}{8} \quad \text{d) } \frac{3}{14} : \frac{7}{26} = \frac{3}{14} \cdot \frac{26}{7} = \frac{3 \cdot 13}{7 \cdot 7} = \frac{39}{49}$$

$$\textcircled{2} \quad \text{a) } \frac{13}{42} : \frac{1}{6} = \frac{13}{42} \cdot \frac{6}{1} = \frac{13 \cdot 1}{7 \cdot 1} = 1 \frac{6}{7} \quad \text{b) } \frac{4}{5} : \frac{2}{5} = \frac{4}{5} \cdot \frac{5}{2} = \frac{2 \cdot 1}{1 \cdot 1} = 2$$

$$\text{c) } \frac{1}{2} : \frac{23}{30} = \frac{1}{2} \cdot \frac{30}{23} = \frac{1 \cdot 15}{1 \cdot 23} = \frac{15}{23} \quad \text{d) } \frac{5}{34} : \frac{1}{16} = \frac{5}{34} \cdot \frac{16}{1} = \frac{5 \cdot 8}{17 \cdot 1} = 2 \frac{6}{17}$$

$$\textcircled{3} \quad \text{a) } \frac{2}{13} : \frac{2}{27} = \frac{2}{13} \cdot \frac{27}{2} = \frac{1 \cdot 27}{13 \cdot 1} = 2 \frac{1}{13} \quad \text{b) } \frac{1}{14} : \frac{3}{22} = \frac{1}{14} \cdot \frac{22}{3} = \frac{1 \cdot 11}{7 \cdot 3} = \frac{11}{21}$$

$$\text{c) } \frac{3}{44} : \frac{1}{32} = \frac{3}{44} \cdot \frac{32}{1} = \frac{3 \cdot 8}{11 \cdot 1} = 2 \frac{2}{11} \quad \text{d) } \frac{4}{19} : \frac{2}{17} = \frac{4}{19} \cdot \frac{17}{2} = \frac{2 \cdot 17}{19 \cdot 1} = 1 \frac{15}{19}$$

$$\textcircled{4} \quad \text{a) } \frac{2}{9} : \frac{11}{15} = \frac{2}{9} \cdot \frac{15}{11} = \frac{2 \cdot 5}{3 \cdot 11} = \frac{10}{33} \quad \text{b) } \frac{1}{35} : \frac{1}{42} = \frac{1}{35} \cdot \frac{42}{1} = \frac{1 \cdot 6}{5 \cdot 1} = 1 \frac{1}{5}$$

$$\text{c) } \frac{2}{7} : \frac{2}{29} = \frac{2}{7} \cdot \frac{29}{2} = \frac{1 \cdot 29}{7 \cdot 1} = 4 \frac{1}{7} \quad \text{d) } \frac{1}{5} : \frac{17}{40} = \frac{1}{5} \cdot \frac{40}{17} = \frac{1 \cdot 8}{1 \cdot 17} = \frac{8}{17}$$

$$\textcircled{5} \quad \text{a) } \frac{6}{17} : \frac{3}{8} = \frac{6}{17} \cdot \frac{8}{3} = \frac{2 \cdot 8}{17 \cdot 1} = \frac{16}{17} \quad \text{b) } \frac{9}{10} : \frac{6}{11} = \frac{9}{10} \cdot \frac{11}{6} = \frac{3 \cdot 11}{10 \cdot 2} = 1 \frac{13}{20}$$

$$\text{c) } \frac{8}{9} : \frac{5}{6} = \frac{8}{9} \cdot \frac{6}{5} = \frac{8 \cdot 2}{3 \cdot 5} = 1 \frac{1}{15} \quad \text{d) } \frac{1}{16} : \frac{3}{40} = \frac{1}{16} \cdot \frac{40}{3} = \frac{1 \cdot 5}{2 \cdot 3} = \frac{5}{6}$$