

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

① a) $\frac{3}{4} : \frac{7}{32} =$

b) $\frac{4}{11} : \frac{4}{15} =$

c) $\frac{1}{18} : \frac{5}{26} =$

d) $\frac{14}{45} : \frac{2}{7} =$

② a) $\frac{2}{5} : \frac{4}{39} =$

b) $\frac{1}{6} : \frac{11}{27} =$

c) $\frac{6}{35} : \frac{2}{3} =$

d) $\frac{3}{4} : \frac{12}{29} =$

③ a) $\frac{13}{15} : \frac{4}{5} =$

b) $\frac{1}{22} : \frac{1}{10} =$

c) $\frac{1}{27} : \frac{2}{27} =$

d) $\frac{4}{9} : \frac{6}{19} =$

④ a) $\frac{3}{20} : \frac{1}{25} =$

b) $\frac{8}{33} : \frac{2}{7} =$

c) $\frac{3}{26} : \frac{3}{22} =$

d) $\frac{21}{38} : \frac{1}{4} =$

⑤ a) $\frac{3}{35} : \frac{2}{25} =$

b) $\frac{1}{5} : \frac{8}{15} =$

c) $\frac{2}{3} : \frac{12}{41} =$

d) $\frac{6}{11} : \frac{4}{11} =$

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

$$\textcircled{1} \quad \text{a) } \frac{3}{4} : \frac{7}{32} = \frac{3}{4} \cdot \frac{32}{7} = \frac{3 \cdot 8}{1 \cdot 7} = 3 \frac{3}{7} \quad \text{b) } \frac{4}{11} : \frac{4}{15} = \frac{4}{11} \cdot \frac{15}{4} = \frac{1 \cdot 15}{11 \cdot 1} = 1 \frac{4}{11}$$

$$\text{c) } \frac{1}{18} : \frac{5}{26} = \frac{1}{18} \cdot \frac{26}{5} = \frac{1 \cdot 13}{9 \cdot 5} = \frac{13}{45} \quad \text{d) } \frac{14}{45} : \frac{2}{7} = \frac{14}{45} \cdot \frac{7}{2} = \frac{7 \cdot 7}{45 \cdot 1} = 1 \frac{4}{45}$$

$$\textcircled{2} \quad \text{a) } \frac{2}{5} : \frac{4}{39} = \frac{2}{5} \cdot \frac{39}{4} = \frac{1 \cdot 39}{5 \cdot 2} = 3 \frac{9}{10} \quad \text{b) } \frac{1}{6} : \frac{11}{27} = \frac{1}{6} \cdot \frac{27}{11} = \frac{1 \cdot 9}{2 \cdot 11} = \frac{9}{22}$$

$$\text{c) } \frac{6}{35} : \frac{2}{3} = \frac{6}{35} \cdot \frac{3}{2} = \frac{3 \cdot 3}{35 \cdot 1} = \frac{9}{35} \quad \text{d) } \frac{3}{4} : \frac{12}{29} = \frac{3}{4} \cdot \frac{29}{12} = \frac{1 \cdot 29}{4 \cdot 4} = 1 \frac{13}{16}$$

$$\textcircled{3} \quad \text{a) } \frac{13}{15} : \frac{4}{5} = \frac{13}{15} \cdot \frac{5}{4} = \frac{13 \cdot 1}{3 \cdot 4} = 1 \frac{1}{12} \quad \text{b) } \frac{1}{22} : \frac{1}{10} = \frac{1}{22} \cdot \frac{10}{1} = \frac{1 \cdot 5}{11 \cdot 1} = \frac{5}{11}$$

$$\text{c) } \frac{1}{27} : \frac{2}{27} = \frac{1}{27} \cdot \frac{27}{2} = \frac{1 \cdot 1}{1 \cdot 2} = \frac{1}{2} \quad \text{d) } \frac{4}{9} : \frac{6}{19} = \frac{4}{9} \cdot \frac{19}{6} = \frac{2 \cdot 19}{9 \cdot 3} = 1 \frac{11}{27}$$

$$\textcircled{4} \quad \text{a) } \frac{3}{20} : \frac{1}{25} = \frac{3}{20} \cdot \frac{25}{1} = \frac{3 \cdot 5}{4 \cdot 1} = 3 \frac{3}{4} \quad \text{b) } \frac{8}{33} : \frac{2}{7} = \frac{8}{33} \cdot \frac{7}{2} = \frac{4 \cdot 7}{33 \cdot 1} = \frac{28}{33}$$

$$\text{c) } \frac{3}{26} : \frac{3}{22} = \frac{3}{26} \cdot \frac{22}{3} = \frac{1 \cdot 11}{13 \cdot 1} = \frac{11}{13} \quad \text{d) } \frac{21}{38} : \frac{1}{4} = \frac{21}{38} \cdot \frac{4}{1} = \frac{21 \cdot 2}{19 \cdot 1} = 2 \frac{4}{19}$$

$$\textcircled{5} \quad \text{a) } \frac{3}{35} : \frac{2}{25} = \frac{3}{35} \cdot \frac{25}{2} = \frac{3 \cdot 5}{7 \cdot 2} = 1 \frac{1}{14} \quad \text{b) } \frac{1}{5} : \frac{8}{15} = \frac{1}{5} \cdot \frac{15}{8} = \frac{1 \cdot 3}{1 \cdot 8} = \frac{3}{8}$$

$$\text{c) } \frac{2}{3} : \frac{12}{41} = \frac{2}{3} \cdot \frac{41}{12} = \frac{1 \cdot 41}{3 \cdot 6} = 2 \frac{5}{18} \quad \text{d) } \frac{6}{11} : \frac{4}{11} = \frac{6}{11} \cdot \frac{11}{4} = \frac{3 \cdot 1}{1 \cdot 2} = 1 \frac{1}{2}$$