

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

① a) $\frac{3}{20} : \frac{4}{15} =$

b) $\frac{4}{7} : \frac{8}{25} =$

c) $\frac{6}{17} : \frac{3}{13} =$

d) $\frac{3}{28} : \frac{1}{6} =$

② a) $\frac{1}{20} : \frac{5}{34} =$

b) $\frac{7}{22} : \frac{3}{11} =$

c) $\frac{7}{15} : \frac{1}{12} =$

d) $\frac{1}{8} : \frac{11}{14} =$

③ a) $\frac{1}{13} : \frac{5}{13} =$

b) $\frac{26}{29} : \frac{2}{3} =$

c) $\frac{8}{21} : \frac{4}{11} =$

d) $\frac{1}{33} : \frac{1}{22} =$

④ a) $\frac{2}{39} : \frac{2}{45} =$

b) $\frac{5}{8} : \frac{10}{19} =$

c) $\frac{6}{23} : \frac{4}{7} =$

d) $\frac{18}{25} : \frac{2}{5} =$

⑤ a) $\frac{19}{20} : \frac{1}{2} =$

b) $\frac{1}{32} : \frac{3}{4} =$

c) $\frac{22}{27} : \frac{2}{3} =$

d) $\frac{2}{13} : \frac{4}{41} =$

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

$$\textcircled{1} \quad \text{a) } \frac{3}{20} : \frac{4}{15} = \frac{3}{20} \cdot \frac{15}{4} = \frac{3 \cdot 3}{4 \cdot 4} = \frac{9}{16} \quad \text{b) } \frac{4}{7} : \frac{8}{25} = \frac{4}{7} \cdot \frac{25}{8} = \frac{1 \cdot 25}{7 \cdot 2} = 1 \frac{11}{14}$$

$$\text{c) } \frac{6}{17} : \frac{3}{13} = \frac{6}{17} \cdot \frac{13}{3} = \frac{2 \cdot 13}{17 \cdot 1} = 1 \frac{9}{17} \quad \text{d) } \frac{3}{28} : \frac{1}{6} = \frac{3}{28} \cdot \frac{6}{1} = \frac{3 \cdot 3}{14 \cdot 1} = \frac{9}{14}$$

$$\textcircled{2} \quad \text{a) } \frac{1}{20} : \frac{5}{34} = \frac{1}{20} \cdot \frac{34}{5} = \frac{1 \cdot 17}{10 \cdot 5} = \frac{17}{50} \quad \text{b) } \frac{7}{22} : \frac{3}{11} = \frac{7}{22} \cdot \frac{11}{3} = \frac{7 \cdot 1}{2 \cdot 3} = 1 \frac{1}{6}$$

$$\text{c) } \frac{7}{15} : \frac{1}{12} = \frac{7}{15} \cdot \frac{12}{1} = \frac{7 \cdot 4}{5 \cdot 1} = 5 \frac{3}{5} \quad \text{d) } \frac{1}{8} : \frac{11}{14} = \frac{1}{8} \cdot \frac{14}{11} = \frac{1 \cdot 7}{4 \cdot 11} = \frac{7}{44}$$

$$\textcircled{3} \quad \text{a) } \frac{1}{13} : \frac{5}{13} = \frac{1}{13} \cdot \frac{13}{5} = \frac{1 \cdot 1}{1 \cdot 5} = \frac{1}{5} \quad \text{b) } \frac{26}{29} : \frac{2}{3} = \frac{26}{29} \cdot \frac{3}{2} = \frac{13 \cdot 3}{29 \cdot 1} = 1 \frac{10}{29}$$

$$\text{c) } \frac{8}{21} : \frac{4}{11} = \frac{8}{21} \cdot \frac{11}{4} = \frac{2 \cdot 11}{21 \cdot 1} = 1 \frac{1}{21} \quad \text{d) } \frac{1}{33} : \frac{1}{22} = \frac{1}{33} \cdot \frac{22}{1} = \frac{1 \cdot 2}{3 \cdot 1} = \frac{2}{3}$$

$$\textcircled{4} \quad \text{a) } \frac{2}{39} : \frac{2}{45} = \frac{2}{39} \cdot \frac{45}{2} = \frac{1 \cdot 15}{13 \cdot 1} = 1 \frac{2}{13} \quad \text{b) } \frac{5}{8} : \frac{10}{19} = \frac{5}{8} \cdot \frac{19}{10} = \frac{1 \cdot 19}{8 \cdot 2} = 1 \frac{3}{16}$$

$$\text{c) } \frac{6}{23} : \frac{4}{7} = \frac{6}{23} \cdot \frac{7}{4} = \frac{3 \cdot 7}{23 \cdot 2} = \frac{21}{46} \quad \text{d) } \frac{18}{25} : \frac{2}{5} = \frac{18}{25} \cdot \frac{5}{2} = \frac{9 \cdot 1}{5 \cdot 1} = 1 \frac{4}{5}$$

$$\textcircled{5} \quad \text{a) } \frac{19}{20} : \frac{1}{2} = \frac{19}{20} \cdot \frac{2}{1} = \frac{19 \cdot 1}{10 \cdot 1} = 1 \frac{9}{10} \quad \text{b) } \frac{1}{32} : \frac{3}{4} = \frac{1}{32} \cdot \frac{4}{3} = \frac{1 \cdot 1}{8 \cdot 3} = \frac{1}{24}$$

$$\text{c) } \frac{22}{27} : \frac{2}{3} = \frac{22}{27} \cdot \frac{3}{2} = \frac{11 \cdot 1}{9 \cdot 1} = 1 \frac{2}{9} \quad \text{d) } \frac{2}{13} : \frac{4}{41} = \frac{2}{13} \cdot \frac{41}{4} = \frac{1 \cdot 41}{13 \cdot 2} = 1 \frac{15}{26}$$