

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

① a) $\frac{1}{17} : \frac{1}{17} =$

b) $\frac{17}{25} : \frac{2}{5} =$

c) $\frac{2}{11} : \frac{8}{9} =$

d) $\frac{1}{18} : \frac{3}{38} =$

② a) $\frac{11}{32} : \frac{1}{6} =$

b) $\frac{1}{2} : \frac{15}{44} =$

c) $\frac{2}{9} : \frac{6}{7} =$

d) $\frac{1}{16} : \frac{3}{26} =$

③ a) $\frac{1}{3} : \frac{8}{33} =$

b) $\frac{7}{34} : \frac{1}{10} =$

c) $\frac{3}{8} : \frac{7}{18} =$

d) $\frac{8}{21} : \frac{4}{9} =$

④ a) $\frac{11}{28} : \frac{2}{7} =$

b) $\frac{1}{6} : \frac{5}{34} =$

c) $\frac{2}{17} : \frac{4}{31} =$

d) $\frac{25}{42} : \frac{2}{3} =$

⑤ a) $\frac{1}{4} : \frac{9}{40} =$

b) $\frac{1}{13} : \frac{1}{26} =$

c) $\frac{3}{10} : \frac{5}{12} =$

d) $\frac{18}{41} : \frac{2}{5} =$

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

$$\textcircled{1} \quad \text{a) } \frac{1}{17} : \frac{1}{17} = \frac{1}{17} \cdot \frac{17}{1} = \frac{1 \cdot 17}{1 \cdot 1} = 1 \quad \text{b) } \frac{17}{25} : \frac{2}{5} = \frac{17}{25} \cdot \frac{5}{2} = \frac{17 \cdot 5}{25 \cdot 2} = 1 \frac{7}{10}$$

$$\text{c) } \frac{2}{11} : \frac{8}{9} = \frac{2}{11} \cdot \frac{9}{8} = \frac{1 \cdot 9}{11 \cdot 4} = \frac{9}{44} \quad \text{d) } \frac{1}{18} : \frac{3}{38} = \frac{1}{18} \cdot \frac{38}{3} = \frac{1 \cdot 19}{9 \cdot 3} = \frac{19}{27}$$

$$\textcircled{2} \quad \text{a) } \frac{11}{32} : \frac{1}{6} = \frac{11}{32} \cdot \frac{6}{1} = \frac{11 \cdot 3}{16 \cdot 1} = 2 \frac{1}{16} \quad \text{b) } \frac{1}{2} : \frac{15}{44} = \frac{1}{2} \cdot \frac{44}{15} = \frac{1 \cdot 22}{1 \cdot 15} = 1 \frac{7}{15}$$

$$\text{c) } \frac{2}{9} : \frac{6}{7} = \frac{2}{9} \cdot \frac{7}{6} = \frac{1 \cdot 7}{9 \cdot 3} = \frac{7}{27} \quad \text{d) } \frac{1}{16} : \frac{3}{26} = \frac{1}{16} \cdot \frac{26}{3} = \frac{1 \cdot 13}{8 \cdot 3} = \frac{13}{24}$$

$$\textcircled{3} \quad \text{a) } \frac{1}{3} : \frac{8}{33} = \frac{1}{3} \cdot \frac{33}{8} = \frac{1 \cdot 11}{1 \cdot 8} = 1 \frac{3}{8} \quad \text{b) } \frac{7}{34} : \frac{1}{10} = \frac{7}{34} \cdot \frac{10}{1} = \frac{7 \cdot 5}{17 \cdot 1} = 2 \frac{1}{17}$$

$$\text{c) } \frac{3}{8} : \frac{7}{18} = \frac{3}{8} \cdot \frac{18}{7} = \frac{3 \cdot 9}{4 \cdot 7} = \frac{27}{28} \quad \text{d) } \frac{8}{21} : \frac{4}{9} = \frac{8}{21} \cdot \frac{9}{4} = \frac{2 \cdot 3}{7 \cdot 1} = \frac{6}{7}$$

$$\textcircled{4} \quad \text{a) } \frac{11}{28} : \frac{2}{7} = \frac{11}{28} \cdot \frac{7}{2} = \frac{11 \cdot 1}{4 \cdot 2} = 1 \frac{3}{8} \quad \text{b) } \frac{1}{6} : \frac{5}{34} = \frac{1}{6} \cdot \frac{34}{5} = \frac{1 \cdot 17}{3 \cdot 5} = 1 \frac{2}{15}$$

$$\text{c) } \frac{2}{17} : \frac{4}{31} = \frac{2}{17} \cdot \frac{31}{4} = \frac{1 \cdot 31}{17 \cdot 2} = \frac{31}{34} \quad \text{d) } \frac{25}{42} : \frac{2}{3} = \frac{25}{42} \cdot \frac{3}{2} = \frac{25 \cdot 1}{14 \cdot 2} = \frac{25}{28}$$

$$\textcircled{5} \quad \text{a) } \frac{1}{4} : \frac{9}{40} = \frac{1}{4} \cdot \frac{40}{9} = \frac{1 \cdot 10}{1 \cdot 9} = 1 \frac{1}{9} \quad \text{b) } \frac{1}{13} : \frac{1}{26} = \frac{1}{13} \cdot \frac{26}{1} = \frac{1 \cdot 2}{1 \cdot 1} = 2$$

$$\text{c) } \frac{3}{10} : \frac{5}{12} = \frac{3}{10} \cdot \frac{12}{5} = \frac{3 \cdot 6}{5 \cdot 5} = \frac{18}{25} \quad \text{d) } \frac{18}{41} : \frac{2}{5} = \frac{18}{41} \cdot \frac{5}{2} = \frac{9 \cdot 5}{41 \cdot 1} = 1 \frac{4}{41}$$