

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

① a)  $\frac{1}{16} : \frac{1}{36} =$

b)  $\frac{2}{7} : \frac{10}{23} =$

c)  $\frac{2}{11} : \frac{5}{33} =$

d)  $\frac{17}{22} : \frac{1}{2} =$

② a)  $\frac{1}{3} : \frac{26}{27} =$

b)  $\frac{2}{9} : \frac{4}{45} =$

c)  $\frac{6}{31} : \frac{2}{13} =$

d)  $\frac{2}{5} : \frac{16}{29} =$

③ a)  $\frac{11}{28} : \frac{1}{8} =$

b)  $\frac{2}{11} : \frac{6}{43} =$

c)  $\frac{2}{23} : \frac{4}{23} =$

d)  $\frac{3}{32} : \frac{3}{10} =$

④ a)  $\frac{14}{15} : \frac{2}{3} =$

b)  $\frac{11}{12} : \frac{1}{2} =$

c)  $\frac{2}{19} : \frac{4}{11} =$

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

⑤ a)  $\frac{1}{14} : \frac{1}{30} =$

b)  $\frac{1}{3} : \frac{5}{42} =$

c)  $\frac{1}{6} : \frac{7}{26} =$

d)  $\frac{1}{11} : \frac{2}{11} =$

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

- ① a)  $\frac{1}{16} : \frac{1}{36} = \frac{1}{16} \cdot \frac{36}{1} = \frac{1 \cdot 9}{4 \cdot 1} = 2 \frac{1}{4}$       b)  $\frac{2}{7} : \frac{10}{23} = \frac{2}{7} \cdot \frac{23}{10} = \frac{1 \cdot 23}{7 \cdot 5} = \frac{23}{35}$
- c)  $\frac{2}{11} : \frac{5}{33} = \frac{2}{11} \cdot \frac{33}{5} = \frac{2 \cdot 3}{1 \cdot 5} = 1 \frac{1}{5}$       d)  $\frac{17}{22} : \frac{1}{2} = \frac{17}{22} \cdot \frac{2}{1} = \frac{17 \cdot 1}{11 \cdot 1} = 1 \frac{6}{11}$
- ② a)  $\frac{1}{3} : \frac{26}{27} = \frac{1}{3} \cdot \frac{27}{26} = \frac{1 \cdot 9}{1 \cdot 26} = \frac{9}{26}$       b)  $\frac{2}{9} : \frac{4}{45} = \frac{2}{9} \cdot \frac{45}{4} = \frac{1 \cdot 5}{1 \cdot 2} = 2 \frac{1}{2}$
- c)  $\frac{6}{31} : \frac{2}{13} = \frac{6}{31} \cdot \frac{13}{2} = \frac{3 \cdot 13}{31 \cdot 1} = 1 \frac{8}{31}$       d)  $\frac{2}{5} : \frac{16}{29} = \frac{2}{5} \cdot \frac{29}{16} = \frac{1 \cdot 29}{5 \cdot 8} = \frac{29}{40}$
- ③ a)  $\frac{11}{28} : \frac{1}{8} = \frac{11}{28} \cdot \frac{8}{1} = \frac{11 \cdot 2}{7 \cdot 1} = 3 \frac{1}{7}$       b)  $\frac{2}{11} : \frac{6}{43} = \frac{2}{11} \cdot \frac{43}{6} = \frac{1 \cdot 43}{11 \cdot 3} = 1 \frac{10}{33}$
- c)  $\frac{2}{23} : \frac{4}{23} = \frac{2}{23} \cdot \frac{23}{4} = \frac{1 \cdot 1}{1 \cdot 2} = \frac{1}{2}$       d)  $\frac{3}{32} : \frac{3}{10} = \frac{3}{32} \cdot \frac{10}{3} = \frac{1 \cdot 5}{16 \cdot 1} = \frac{5}{16}$
- ④ a)  $\frac{14}{15} : \frac{2}{3} = \frac{14}{15} \cdot \frac{3}{2} = \frac{7 \cdot 1}{5 \cdot 1} = 1 \frac{2}{5}$       b)  $\frac{11}{12} : \frac{1}{2} = \frac{11}{12} \cdot \frac{2}{1} = \frac{11 \cdot 1}{6 \cdot 1} = 1 \frac{5}{6}$
- c)  $\frac{2}{19} : \frac{4}{11} = \frac{2}{19} \cdot \frac{11}{4} = \frac{1 \cdot 11}{19 \cdot 2} = \frac{11}{38}$       d)  $\frac{1}{32} : \frac{3}{44} = \frac{1}{32} \cdot \frac{44}{3} = \frac{1 \cdot 11}{8 \cdot 3} = \frac{11}{24}$
- ⑤ a)  $\frac{1}{14} : \frac{1}{30} = \frac{1}{14} \cdot \frac{30}{1} = \frac{1 \cdot 15}{7 \cdot 1} = 2 \frac{1}{7}$       b)  $\frac{1}{3} : \frac{5}{42} = \frac{1}{3} \cdot \frac{42}{5} = \frac{1 \cdot 14}{1 \cdot 5} = 2 \frac{4}{5}$
- c)  $\frac{1}{6} : \frac{7}{26} = \frac{1}{6} \cdot \frac{26}{7} = \frac{1 \cdot 13}{3 \cdot 7} = \frac{13}{21}$       d)  $\frac{1}{11} : \frac{2}{11} = \frac{1}{11} \cdot \frac{11}{2} = \frac{1 \cdot 1}{1 \cdot 2} = \frac{1}{2}$