

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

① a)  $\frac{17}{42} : \frac{1}{3} =$

b)  $\frac{7}{33} : \frac{3}{11} =$

c)  $\frac{1}{6} : \frac{7}{12} =$

d)  $\frac{12}{29} : \frac{2}{5} =$

② a)  $\frac{1}{7} : \frac{1}{14} =$

b)  $\frac{1}{4} : \frac{25}{44} =$

c)  $\frac{1}{2} : \frac{15}{16} =$

d)  $\frac{3}{8} : \frac{1}{26} =$

③ a)  $\frac{4}{9} : \frac{2}{15} =$

b)  $\frac{1}{6} : \frac{11}{32} =$

c)  $\frac{2}{25} : \frac{3}{20} =$

d)  $\frac{3}{26} : \frac{1}{30} =$

④ a)  $\frac{4}{29} : \frac{2}{21} =$

b)  $\frac{1}{9} : \frac{5}{9} =$

c)  $\frac{1}{10} : \frac{1}{34} =$

d)  $\frac{8}{43} : \frac{2}{11} =$

⑤ a)  $\frac{2}{5} : \frac{16}{23} =$

b)  $\frac{1}{14} : \frac{3}{7} =$

c)  $\frac{19}{42} : \frac{1}{4} =$

d)  $\frac{4}{9} : \frac{4}{25} =$

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

- ① a)  $\frac{17}{42} : \frac{1}{3} = \frac{17}{42} \cdot \frac{3}{1} = \frac{17 \cdot 1}{14 \cdot 1} = 1 \frac{3}{14}$       b)  $\frac{7}{33} : \frac{3}{11} = \frac{7}{33} \cdot \frac{11}{3} = \frac{7 \cdot 1}{3 \cdot 3} = \frac{7}{9}$
- c)  $\frac{1}{6} : \frac{7}{12} = \frac{1}{6} \cdot \frac{12}{7} = \frac{1 \cdot 2}{1 \cdot 7} = \frac{2}{7}$       d)  $\frac{12}{29} : \frac{2}{5} = \frac{12}{29} \cdot \frac{5}{2} = \frac{6 \cdot 5}{29 \cdot 1} = 1 \frac{1}{29}$
- ② a)  $\frac{1}{7} : \frac{1}{14} = \frac{1}{7} \cdot \frac{14}{1} = \frac{1 \cdot 2}{1 \cdot 1} = 2$       b)  $\frac{1}{4} : \frac{25}{44} = \frac{1}{4} \cdot \frac{44}{25} = \frac{1 \cdot 11}{1 \cdot 25} = \frac{11}{25}$
- c)  $\frac{1}{2} : \frac{15}{16} = \frac{1}{2} \cdot \frac{16}{15} = \frac{1 \cdot 8}{1 \cdot 15} = \frac{8}{15}$       d)  $\frac{3}{8} : \frac{1}{26} = \frac{3}{8} \cdot \frac{26}{1} = \frac{3 \cdot 13}{4 \cdot 1} = 9 \frac{3}{4}$
- ③ a)  $\frac{4}{9} : \frac{2}{15} = \frac{4}{9} \cdot \frac{15}{2} = \frac{2 \cdot 5}{3 \cdot 1} = 3 \frac{1}{3}$       b)  $\frac{1}{6} : \frac{11}{32} = \frac{1}{6} \cdot \frac{32}{11} = \frac{1 \cdot 16}{3 \cdot 11} = \frac{16}{33}$
- c)  $\frac{2}{25} : \frac{3}{20} = \frac{2}{25} \cdot \frac{20}{3} = \frac{2 \cdot 4}{5 \cdot 3} = \frac{8}{15}$       d)  $\frac{3}{26} : \frac{1}{30} = \frac{3}{26} \cdot \frac{30}{1} = \frac{3 \cdot 15}{13 \cdot 1} = 3 \frac{6}{13}$
- ④ a)  $\frac{4}{29} : \frac{2}{21} = \frac{4}{29} \cdot \frac{21}{2} = \frac{2 \cdot 21}{29 \cdot 1} = 1 \frac{13}{29}$       b)  $\frac{1}{9} : \frac{5}{9} = \frac{1}{9} \cdot \frac{9}{5} = \frac{1 \cdot 1}{1 \cdot 5} = \frac{1}{5}$
- c)  $\frac{1}{10} : \frac{1}{34} = \frac{1}{10} \cdot \frac{34}{1} = \frac{1 \cdot 17}{5 \cdot 1} = 3 \frac{2}{5}$       d)  $\frac{8}{43} : \frac{2}{11} = \frac{8}{43} \cdot \frac{11}{2} = \frac{4 \cdot 11}{43 \cdot 1} = 1 \frac{1}{43}$
- ⑤ a)  $\frac{2}{5} : \frac{16}{23} = \frac{2}{5} \cdot \frac{23}{16} = \frac{1 \cdot 23}{5 \cdot 8} = \frac{23}{40}$       b)  $\frac{1}{14} : \frac{3}{7} = \frac{1}{14} \cdot \frac{7}{3} = \frac{1 \cdot 1}{2 \cdot 3} = \frac{1}{6}$
- c)  $\frac{19}{42} : \frac{1}{4} = \frac{19}{42} \cdot \frac{4}{1} = \frac{19 \cdot 2}{21 \cdot 1} = 1 \frac{17}{21}$       d)  $\frac{4}{9} : \frac{4}{25} = \frac{4}{9} \cdot \frac{25}{4} = \frac{1 \cdot 25}{9 \cdot 1} = 2 \frac{7}{9}$