

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

① a)  $\frac{5}{21} : \frac{2}{15} =$

b)  $\frac{1}{22} : \frac{1}{12} =$

c)  $\frac{1}{2} : \frac{25}{26} =$

d)  $\frac{28}{31} : \frac{2}{3} =$

② a)  $\frac{2}{7} : \frac{4}{37} =$

b)  $\frac{4}{39} : \frac{1}{6} =$

c)  $\frac{5}{12} : \frac{8}{9} =$

d)  $\frac{3}{8} : \frac{3}{29} =$

③ a)  $\frac{17}{22} : \frac{1}{4} =$

b)  $\frac{6}{31} : \frac{2}{5} =$

c)  $\frac{5}{6} : \frac{11}{15} =$

d)  $\frac{1}{2} : \frac{5}{42} =$

④ a)  $\frac{1}{3} : \frac{23}{27} =$

b)  $\frac{1}{19} : \frac{1}{19} =$

c)  $\frac{5}{24} : \frac{3}{16} =$

d)  $\frac{2}{9} : \frac{6}{11} =$

⑤ a)  $\frac{3}{5} : \frac{15}{29} =$

b)  $\frac{9}{13} : \frac{3}{10} =$

c)  $\frac{1}{21} : \frac{2}{39} =$

d)  $\frac{1}{2} : \frac{7}{20} =$

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- ① a)  $\frac{5}{21} : \frac{2}{15} = \frac{5}{21} \cdot \frac{15}{2} = \frac{5 \cdot 5}{7 \cdot 2} = 1 \frac{11}{14}$       b)  $\frac{1}{22} : \frac{1}{12} = \frac{1}{22} \cdot \frac{12}{1} = \frac{1 \cdot 6}{11 \cdot 1} = \frac{6}{11}$
- c)  $\frac{1}{2} : \frac{25}{26} = \frac{1}{2} \cdot \frac{26}{25} = \frac{1 \cdot 13}{1 \cdot 25} = \frac{13}{25}$       d)  $\frac{28}{31} : \frac{2}{3} = \frac{28}{31} \cdot \frac{3}{2} = \frac{14 \cdot 3}{31 \cdot 1} = 1 \frac{11}{31}$
- ② a)  $\frac{2}{7} : \frac{4}{37} = \frac{2}{7} \cdot \frac{37}{4} = \frac{1 \cdot 37}{7 \cdot 2} = 2 \frac{9}{14}$       b)  $\frac{4}{39} : \frac{1}{6} = \frac{4}{39} \cdot \frac{6}{1} = \frac{4 \cdot 2}{13 \cdot 1} = \frac{8}{13}$
- c)  $\frac{5}{12} : \frac{8}{9} = \frac{5}{12} \cdot \frac{9}{8} = \frac{5 \cdot 3}{4 \cdot 8} = \frac{15}{32}$       d)  $\frac{3}{8} : \frac{3}{29} = \frac{3}{8} \cdot \frac{29}{3} = \frac{1 \cdot 29}{8 \cdot 1} = 3 \frac{5}{8}$
- ③ a)  $\frac{17}{22} : \frac{1}{4} = \frac{17}{22} \cdot \frac{4}{1} = \frac{17 \cdot 2}{11 \cdot 1} = 3 \frac{1}{11}$       b)  $\frac{6}{31} : \frac{2}{5} = \frac{6}{31} \cdot \frac{5}{2} = \frac{3 \cdot 5}{31 \cdot 1} = \frac{15}{31}$
- c)  $\frac{5}{6} : \frac{11}{15} = \frac{5}{6} \cdot \frac{15}{11} = \frac{5 \cdot 5}{2 \cdot 11} = 1 \frac{3}{22}$       d)  $\frac{1}{2} : \frac{5}{42} = \frac{1}{2} \cdot \frac{42}{5} = \frac{1 \cdot 21}{1 \cdot 5} = 4 \frac{1}{5}$
- ④ a)  $\frac{1}{3} : \frac{23}{27} = \frac{1}{3} \cdot \frac{27}{23} = \frac{1 \cdot 9}{1 \cdot 23} = \frac{9}{23}$       b)  $\frac{1}{19} : \frac{1}{19} = \frac{1}{19} \cdot \frac{19}{1} = \frac{1 \cdot 1}{1 \cdot 1} = 1$
- c)  $\frac{5}{24} : \frac{3}{16} = \frac{5}{24} \cdot \frac{16}{3} = \frac{5 \cdot 2}{3 \cdot 3} = 1 \frac{1}{9}$       d)  $\frac{2}{9} : \frac{6}{11} = \frac{2}{9} \cdot \frac{11}{6} = \frac{1 \cdot 11}{9 \cdot 3} = \frac{11}{27}$
- ⑤ a)  $\frac{3}{5} : \frac{15}{29} = \frac{3}{5} \cdot \frac{29}{15} = \frac{1 \cdot 29}{5 \cdot 5} = 1 \frac{4}{25}$       b)  $\frac{9}{13} : \frac{3}{10} = \frac{9}{13} \cdot \frac{10}{3} = \frac{3 \cdot 10}{13 \cdot 1} = 2 \frac{4}{13}$
- c)  $\frac{1}{21} : \frac{2}{39} = \frac{1}{21} \cdot \frac{39}{2} = \frac{1 \cdot 13}{7 \cdot 2} = \frac{13}{14}$       d)  $\frac{1}{2} : \frac{7}{20} = \frac{1}{2} \cdot \frac{20}{7} = \frac{1 \cdot 10}{1 \cdot 7} = 1 \frac{3}{7}$