

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

① a)  $\frac{14}{19} : \frac{2}{7} =$

b)  $\frac{1}{30} : \frac{1}{24} =$

c)  $\frac{2}{3} : \frac{23}{45} =$

d)  $\frac{3}{4} : \frac{3}{22} =$

② a)  $\frac{2}{41} : \frac{2}{35} =$

b)  $\frac{29}{32} : \frac{1}{2} =$

c)  $\frac{4}{9} : \frac{4}{15} =$

d)  $\frac{1}{13} : \frac{5}{39} =$

③ a)  $\frac{4}{7} : \frac{8}{25} =$

b)  $\frac{7}{32} : \frac{3}{14} =$

c)  $\frac{5}{6} : \frac{15}{17} =$

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

④ a)  $\frac{13}{25} : \frac{2}{5} =$

b)  $\frac{1}{20} : \frac{3}{4} =$

c)  $\frac{5}{9} : \frac{7}{15} =$

d)  $\frac{13}{36} : \frac{1}{6} =$

⑤ a)  $\frac{2}{29} : \frac{2}{23} =$

b)  $\frac{5}{19} : \frac{5}{18} =$

c)  $\frac{23}{32} : \frac{1}{2} =$

d)  $\frac{2}{3} : \frac{11}{21} =$

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- ① a)  $\frac{14}{19} : \frac{2}{7} = \frac{14}{19} \cdot \frac{7}{2} = \frac{7 \cdot 7}{19 \cdot 1} = 2 \frac{11}{19}$       b)  $\frac{1}{30} : \frac{1}{24} = \frac{1}{30} \cdot \frac{24}{1} = \frac{1 \cdot 4}{5 \cdot 1} = \frac{4}{5}$
- c)  $\frac{2}{3} : \frac{23}{45} = \frac{2}{3} \cdot \frac{45}{23} = \frac{2 \cdot 15}{1 \cdot 23} = 1 \frac{7}{23}$       d)  $\frac{3}{4} : \frac{3}{22} = \frac{3}{4} \cdot \frac{22}{3} = \frac{1 \cdot 11}{2 \cdot 1} = 5 \frac{1}{2}$
- ② a)  $\frac{2}{41} : \frac{2}{35} = \frac{2}{41} \cdot \frac{35}{2} = \frac{1 \cdot 35}{41 \cdot 1} = \frac{35}{41}$       b)  $\frac{29}{32} : \frac{1}{2} = \frac{29}{32} \cdot \frac{2}{1} = \frac{29 \cdot 1}{16 \cdot 1} = 1 \frac{13}{16}$
- c)  $\frac{4}{9} : \frac{4}{15} = \frac{4}{9} \cdot \frac{15}{4} = \frac{1 \cdot 5}{3 \cdot 1} = 1 \frac{2}{3}$       d)  $\frac{1}{13} : \frac{5}{39} = \frac{1}{13} \cdot \frac{39}{5} = \frac{1 \cdot 3}{1 \cdot 5} = \frac{3}{5}$
- ③ a)  $\frac{4}{7} : \frac{8}{25} = \frac{4}{7} \cdot \frac{25}{8} = \frac{1 \cdot 25}{7 \cdot 2} = 1 \frac{11}{14}$       b)  $\frac{7}{32} : \frac{3}{14} = \frac{7}{32} \cdot \frac{14}{3} = \frac{7 \cdot 7}{16 \cdot 3} = 1 \frac{1}{48}$
- c)  $\frac{5}{6} : \frac{15}{17} = \frac{5}{6} \cdot \frac{17}{15} = \frac{1 \cdot 17}{6 \cdot 3} = \frac{17}{18}$       d)  $\frac{1}{26} : \frac{1}{26} = \frac{1}{26} \cdot \frac{26}{1} = \frac{1 \cdot 1}{1 \cdot 1} = 1$
- ④ a)  $\frac{13}{25} : \frac{2}{5} = \frac{13}{25} \cdot \frac{5}{2} = \frac{13 \cdot 1}{5 \cdot 2} = 1 \frac{3}{10}$       b)  $\frac{1}{20} : \frac{3}{4} = \frac{1}{20} \cdot \frac{4}{3} = \frac{1 \cdot 1}{5 \cdot 3} = \frac{1}{15}$
- c)  $\frac{5}{9} : \frac{7}{15} = \frac{5}{9} \cdot \frac{15}{7} = \frac{5 \cdot 5}{3 \cdot 7} = 1 \frac{4}{21}$       d)  $\frac{13}{36} : \frac{1}{6} = \frac{13}{36} \cdot \frac{6}{1} = \frac{13 \cdot 1}{6 \cdot 1} = 2 \frac{1}{6}$
- ⑤ a)  $\frac{2}{29} : \frac{2}{23} = \frac{2}{29} \cdot \frac{23}{2} = \frac{1 \cdot 23}{29 \cdot 1} = \frac{23}{29}$       b)  $\frac{5}{19} : \frac{5}{18} = \frac{5}{19} \cdot \frac{18}{5} = \frac{1 \cdot 18}{19 \cdot 1} = \frac{18}{19}$
- c)  $\frac{23}{32} : \frac{1}{2} = \frac{23}{32} \cdot \frac{2}{1} = \frac{23 \cdot 1}{16 \cdot 1} = 1 \frac{7}{16}$       d)  $\frac{2}{3} : \frac{11}{21} = \frac{2}{3} \cdot \frac{21}{11} = \frac{2 \cdot 7}{1 \cdot 11} = 1 \frac{3}{11}$