

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

① a)  $\frac{4}{11} : \frac{6}{19} =$

b)  $\frac{2}{27} : \frac{2}{5} =$

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

d)  $\frac{1}{6} : \frac{5}{38} =$

② a)  $\frac{2}{45} : \frac{2}{43} =$

b)  $\frac{1}{10} : \frac{3}{35} =$

c)  $\frac{11}{36} : \frac{1}{4} =$

d)  $\frac{1}{28} : \frac{2}{21} =$

③ a)  $\frac{1}{18} : \frac{5}{39} =$

b)  $\frac{1}{22} : \frac{1}{40} =$

c)  $\frac{2}{3} : \frac{23}{42} =$

d)  $\frac{1}{5} : \frac{9}{20} =$

④ a)  $\frac{1}{17} : \frac{3}{17} =$

b)  $\frac{8}{9} : \frac{6}{7} =$

c)  $\frac{3}{44} : \frac{1}{30} =$

d)  $\frac{1}{28} : \frac{3}{28} =$

⑤ a)  $\frac{1}{2} : \frac{17}{42} =$

b)  $\frac{2}{3} : \frac{16}{37} =$

c)  $\frac{1}{4} : \frac{23}{40} =$

d)  $\frac{1}{15} : \frac{1}{36} =$

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- ① a)  $\frac{4}{11} : \frac{6}{19} = \frac{4}{11} \cdot \frac{19}{6} = \frac{2 \cdot 19}{11 \cdot 3} = 1 \frac{5}{33}$       b)  $\frac{2}{27} : \frac{2}{5} = \frac{2}{27} \cdot \frac{5}{2} = \frac{1 \cdot 5}{27 \cdot 1} = \frac{5}{27}$
- 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)  $\frac{1}{6} : \frac{5}{38} = \frac{1}{6} \cdot \frac{38}{5} = \frac{1 \cdot 19}{3 \cdot 5} = 1 \frac{4}{15}$
- ② a)  $\frac{2}{45} : \frac{2}{43} = \frac{2}{45} \cdot \frac{43}{2} = \frac{1 \cdot 43}{45 \cdot 1} = \frac{43}{45}$       b)  $\frac{1}{10} : \frac{3}{35} = \frac{1}{10} \cdot \frac{35}{3} = \frac{1 \cdot 7}{2 \cdot 3} = 1 \frac{1}{6}$
- c)  $\frac{11}{36} : \frac{1}{4} = \frac{11}{36} \cdot \frac{4}{1} = \frac{11 \cdot 1}{9 \cdot 1} = 1 \frac{2}{9}$       d)  $\frac{1}{28} : \frac{2}{21} = \frac{1}{28} \cdot \frac{21}{2} = \frac{1 \cdot 3}{4 \cdot 2} = \frac{3}{8}$
- ③ a)  $\frac{1}{18} : \frac{5}{39} = \frac{1}{18} \cdot \frac{39}{5} = \frac{1 \cdot 13}{6 \cdot 5} = \frac{13}{30}$       b)  $\frac{1}{22} : \frac{1}{40} = \frac{1}{22} \cdot \frac{40}{1} = \frac{1 \cdot 20}{11 \cdot 1} = 1 \frac{9}{11}$
- c)  $\frac{2}{3} : \frac{23}{42} = \frac{2}{3} \cdot \frac{42}{23} = \frac{2 \cdot 14}{1 \cdot 23} = 1 \frac{5}{23}$       d)  $\frac{1}{5} : \frac{9}{20} = \frac{1}{5} \cdot \frac{20}{9} = \frac{1 \cdot 4}{1 \cdot 9} = \frac{4}{9}$
- ④ a)  $\frac{1}{17} : \frac{3}{17} = \frac{1}{17} \cdot \frac{17}{3} = \frac{1 \cdot 1}{1 \cdot 3} = \frac{1}{3}$       b)  $\frac{8}{9} : \frac{6}{7} = \frac{8}{9} \cdot \frac{7}{6} = \frac{4 \cdot 7}{9 \cdot 3} = 1 \frac{1}{27}$
- c)  $\frac{3}{44} : \frac{1}{30} = \frac{3}{44} \cdot \frac{30}{1} = \frac{3 \cdot 15}{22 \cdot 1} = 2 \frac{1}{22}$       d)  $\frac{1}{28} : \frac{3}{28} = \frac{1}{28} \cdot \frac{28}{3} = \frac{1 \cdot 1}{1 \cdot 3} = \frac{1}{3}$
- ⑤ a)  $\frac{1}{2} : \frac{17}{42} = \frac{1}{2} \cdot \frac{42}{17} = \frac{1 \cdot 21}{1 \cdot 17} = 1 \frac{4}{17}$       b)  $\frac{2}{3} : \frac{16}{37} = \frac{2}{3} \cdot \frac{37}{16} = \frac{1 \cdot 37}{3 \cdot 8} = 1 \frac{13}{24}$
- c)  $\frac{1}{4} : \frac{23}{40} = \frac{1}{4} \cdot \frac{40}{23} = \frac{1 \cdot 10}{1 \cdot 23} = \frac{10}{23}$       d)  $\frac{1}{15} : \frac{1}{36} = \frac{1}{15} \cdot \frac{36}{1} = \frac{1 \cdot 12}{5 \cdot 1} = 2 \frac{2}{5}$