

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

① a)  $\frac{2}{11} : \frac{3}{22} =$

b)  $\frac{1}{30} : \frac{1}{8} =$

c)  $\frac{7}{20} : \frac{5}{12} =$

d)  $\frac{15}{23} : \frac{3}{5} =$

② a)  $\frac{19}{40} : \frac{1}{4} =$

b)  $\frac{2}{15} : \frac{5}{33} =$

c)  $\frac{4}{43} : \frac{2}{13} =$

d)  $\frac{5}{6} : \frac{3}{16} =$

③ a)  $\frac{28}{45} : \frac{1}{3} =$

b)  $\frac{2}{5} : \frac{18}{41} =$

c)  $\frac{7}{30} : \frac{3}{4} =$

d)  $\frac{3}{8} : \frac{1}{28} =$

④ a)  $\frac{8}{19} : \frac{2}{9} =$

b)  $\frac{2}{25} : \frac{4}{21} =$

c)  $\frac{1}{2} : \frac{11}{20} =$

d)  $\frac{11}{15} : \frac{1}{6} =$

⑤ a)  $\frac{2}{23} : \frac{2}{35} =$

b)  $\frac{1}{12} : \frac{8}{39} =$

c)  $\frac{2}{7} : \frac{6}{19} =$

d)  $\frac{8}{33} : \frac{1}{9} =$

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

- ① a)  $\frac{2}{11} : \frac{3}{22} = \frac{2}{11} \cdot \frac{22}{3} = \frac{2 \cdot 2}{1 \cdot 3} = 1 \frac{1}{3}$       b)  $\frac{1}{30} : \frac{1}{8} = \frac{1}{30} \cdot \frac{8}{1} = \frac{1 \cdot 4}{15 \cdot 1} = \frac{4}{15}$
- c)  $\frac{7}{20} : \frac{5}{12} = \frac{7}{20} \cdot \frac{12}{5} = \frac{7 \cdot 3}{5 \cdot 5} = \frac{21}{25}$       d)  $\frac{15}{23} : \frac{3}{5} = \frac{15}{23} \cdot \frac{5}{3} = \frac{5 \cdot 5}{23 \cdot 1} = 1 \frac{2}{23}$
- ② a)  $\frac{19}{40} : \frac{1}{4} = \frac{19}{40} \cdot \frac{4}{1} = \frac{19 \cdot 1}{10 \cdot 1} = 1 \frac{9}{10}$       b)  $\frac{2}{15} : \frac{5}{33} = \frac{2}{15} \cdot \frac{33}{5} = \frac{2 \cdot 11}{5 \cdot 5} = \frac{22}{25}$
- c)  $\frac{4}{43} : \frac{2}{13} = \frac{4}{43} \cdot \frac{13}{2} = \frac{2 \cdot 13}{43 \cdot 1} = \frac{26}{43}$       d)  $\frac{5}{6} : \frac{3}{16} = \frac{5}{6} \cdot \frac{16}{3} = \frac{5 \cdot 8}{3 \cdot 3} = 4 \frac{4}{9}$
- ③ a)  $\frac{28}{45} : \frac{1}{3} = \frac{28}{45} \cdot \frac{3}{1} = \frac{28 \cdot 1}{15 \cdot 1} = 1 \frac{13}{15}$       b)  $\frac{2}{5} : \frac{18}{41} = \frac{2}{5} \cdot \frac{41}{18} = \frac{1 \cdot 41}{5 \cdot 9} = \frac{41}{45}$
- c)  $\frac{7}{30} : \frac{3}{4} = \frac{7}{30} \cdot \frac{4}{3} = \frac{7 \cdot 2}{15 \cdot 3} = \frac{14}{45}$       d)  $\frac{3}{8} : \frac{1}{28} = \frac{3}{8} \cdot \frac{28}{1} = \frac{3 \cdot 7}{2 \cdot 1} = 10 \frac{1}{2}$
- ④ a)  $\frac{8}{19} : \frac{2}{9} = \frac{8}{19} \cdot \frac{9}{2} = \frac{4 \cdot 9}{19 \cdot 1} = 1 \frac{17}{19}$       b)  $\frac{2}{25} : \frac{4}{21} = \frac{2}{25} \cdot \frac{21}{4} = \frac{1 \cdot 21}{25 \cdot 2} = \frac{21}{50}$
- c)  $\frac{1}{2} : \frac{11}{20} = \frac{1}{2} \cdot \frac{20}{11} = \frac{1 \cdot 10}{1 \cdot 11} = \frac{10}{11}$       d)  $\frac{11}{15} : \frac{1}{6} = \frac{11}{15} \cdot \frac{6}{1} = \frac{11 \cdot 2}{5 \cdot 1} = 4 \frac{2}{5}$
- ⑤ a)  $\frac{2}{23} : \frac{2}{35} = \frac{2}{23} \cdot \frac{35}{2} = \frac{1 \cdot 35}{23 \cdot 1} = 1 \frac{12}{23}$       b)  $\frac{1}{12} : \frac{8}{39} = \frac{1}{12} \cdot \frac{39}{8} = \frac{1 \cdot 13}{4 \cdot 8} = \frac{13}{32}$
- c)  $\frac{2}{7} : \frac{6}{19} = \frac{2}{7} \cdot \frac{19}{6} = \frac{1 \cdot 19}{7 \cdot 3} = \frac{19}{21}$       d)  $\frac{8}{33} : \frac{1}{9} = \frac{8}{33} \cdot \frac{9}{1} = \frac{8 \cdot 3}{11 \cdot 1} = 2 \frac{2}{11}$