

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

① a) $\frac{1}{6} : \frac{15}{32} =$

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

c) $\frac{11}{14} : \frac{1}{8} =$

d) $\frac{3}{16} : \frac{3}{26} =$

② a) $\frac{20}{31} : \frac{2}{3} =$

b) $\frac{1}{27} : \frac{1}{21} =$

c) $\frac{4}{5} : \frac{8}{11} =$

d) $\frac{2}{9} : \frac{5}{39} =$

③ a) $\frac{1}{4} : \frac{13}{42} =$

b) $\frac{1}{3} : \frac{4}{33} =$

c) $\frac{9}{35} : \frac{1}{10} =$

d) $\frac{2}{21} : \frac{3}{14} =$

④ a) $\frac{3}{25} : \frac{2}{15} =$

b) $\frac{1}{6} : \frac{1}{44} =$

c) $\frac{2}{5} : \frac{10}{27} =$

d) $\frac{4}{43} : \frac{2}{11} =$

⑤ a) $\frac{7}{26} : \frac{3}{4} =$

b) $\frac{2}{3} : \frac{7}{15} =$

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

d) $\frac{1}{5} : \frac{13}{40} =$

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- ① a) $\frac{1}{6} : \frac{15}{32} = \frac{1}{6} \cdot \frac{32}{15} = \frac{1 \cdot 16}{3 \cdot 15} = \frac{16}{45}$ b) $\frac{2}{25} : \frac{4}{25} = \frac{2}{25} \cdot \frac{25}{4} = \frac{1 \cdot 1}{1 \cdot 2} = \frac{1}{2}$
- c) $\frac{11}{14} : \frac{1}{8} = \frac{11}{14} \cdot \frac{8}{1} = \frac{11 \cdot 4}{7 \cdot 1} = 6 \frac{2}{7}$ d) $\frac{3}{16} : \frac{3}{26} = \frac{3}{16} \cdot \frac{26}{3} = \frac{1 \cdot 13}{8 \cdot 1} = 1 \frac{5}{8}$
- ② a) $\frac{20}{31} : \frac{2}{3} = \frac{20}{31} \cdot \frac{3}{2} = \frac{10 \cdot 3}{31 \cdot 1} = \frac{30}{31}$ b) $\frac{1}{27} : \frac{1}{21} = \frac{1}{27} \cdot \frac{21}{1} = \frac{1 \cdot 7}{9 \cdot 1} = \frac{7}{9}$
- c) $\frac{4}{5} : \frac{8}{11} = \frac{4}{5} \cdot \frac{11}{8} = \frac{1 \cdot 11}{5 \cdot 2} = 1 \frac{1}{10}$ d) $\frac{2}{9} : \frac{5}{39} = \frac{2}{9} \cdot \frac{39}{5} = \frac{2 \cdot 13}{3 \cdot 5} = 1 \frac{11}{15}$
- ③ a) $\frac{1}{4} : \frac{13}{42} = \frac{1}{4} \cdot \frac{42}{13} = \frac{1 \cdot 21}{2 \cdot 13} = \frac{21}{26}$ b) $\frac{1}{3} : \frac{4}{33} = \frac{1}{3} \cdot \frac{33}{4} = \frac{1 \cdot 11}{1 \cdot 4} = 2 \frac{3}{4}$
- c) $\frac{9}{35} : \frac{1}{10} = \frac{9}{35} \cdot \frac{10}{1} = \frac{9 \cdot 2}{7 \cdot 1} = 2 \frac{4}{7}$ d) $\frac{2}{21} : \frac{3}{14} = \frac{2}{21} \cdot \frac{14}{3} = \frac{2 \cdot 2}{3 \cdot 3} = \frac{4}{9}$
- ④ a) $\frac{3}{25} : \frac{2}{15} = \frac{3}{25} \cdot \frac{15}{2} = \frac{3 \cdot 3}{5 \cdot 2} = \frac{9}{10}$ b) $\frac{1}{6} : \frac{1}{44} = \frac{1}{6} \cdot \frac{44}{1} = \frac{1 \cdot 22}{3 \cdot 1} = 7 \frac{1}{3}$
- c) $\frac{2}{5} : \frac{10}{27} = \frac{2}{5} \cdot \frac{27}{10} = \frac{1 \cdot 27}{5 \cdot 5} = 1 \frac{2}{25}$ d) $\frac{4}{43} : \frac{2}{11} = \frac{4}{43} \cdot \frac{11}{2} = \frac{2 \cdot 11}{43 \cdot 1} = \frac{22}{43}$
- ⑤ a) $\frac{7}{26} : \frac{3}{4} = \frac{7}{26} \cdot \frac{4}{3} = \frac{7 \cdot 2}{13 \cdot 3} = \frac{14}{39}$ b) $\frac{2}{3} : \frac{7}{15} = \frac{2}{3} \cdot \frac{15}{7} = \frac{2 \cdot 5}{1 \cdot 7} = 1 \frac{3}{7}$
- c) $\frac{1}{20} : \frac{1}{20} = \frac{1}{20} \cdot \frac{20}{1} = \frac{1 \cdot 1}{1 \cdot 1} = 1$ d) $\frac{1}{5} : \frac{13}{40} = \frac{1}{5} \cdot \frac{40}{13} = \frac{1 \cdot 8}{1 \cdot 13} = \frac{8}{13}$