

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

① a) $\frac{3}{13} : \frac{3}{8} =$

b) $\frac{2}{7} : \frac{12}{17} =$

c) $\frac{7}{10} : \frac{1}{5} =$

d) $\frac{2}{3} : \frac{6}{41} =$

② a) $\frac{3}{4} : \frac{21}{26} =$

b) $\frac{1}{18} : \frac{1}{28} =$

c) $\frac{5}{14} : \frac{3}{16} =$

d) $\frac{6}{25} : \frac{4}{11} =$

③ a) $\frac{4}{9} : \frac{2}{9} =$

b) $\frac{23}{30} : \frac{1}{2} =$

c) $\frac{3}{7} : \frac{12}{17} =$

d) $\frac{2}{35} : \frac{2}{27} =$

④ a) $\frac{6}{13} : \frac{3}{11} =$

b) $\frac{5}{9} : \frac{5}{14} =$

c) $\frac{2}{15} : \frac{1}{5} =$

d) $\frac{2}{3} : \frac{17}{27} =$

⑤ a) $\frac{3}{4} : \frac{6}{23} =$

b) $\frac{2}{7} : \frac{4}{9} =$

c) $\frac{5}{34} : \frac{2}{17} =$

d) $\frac{7}{10} : \frac{7}{11} =$

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

- ① a) $\frac{3}{13} : \frac{3}{8} = \frac{3}{13} \cdot \frac{8}{3} = \frac{1 \cdot 8}{13 \cdot 1} = \frac{8}{13}$ b) $\frac{2}{7} : \frac{12}{17} = \frac{2}{7} \cdot \frac{17}{12} = \frac{1 \cdot 17}{7 \cdot 6} = \frac{17}{42}$
- c) $\frac{7}{10} : \frac{1}{5} = \frac{7}{10} \cdot \frac{5}{1} = \frac{7 \cdot 1}{2 \cdot 1} = 3 \frac{1}{2}$ d) $\frac{2}{3} : \frac{6}{41} = \frac{2}{3} \cdot \frac{41}{6} = \frac{1 \cdot 41}{3 \cdot 3} = 4 \frac{5}{9}$
- ② a) $\frac{3}{4} : \frac{21}{26} = \frac{3}{4} \cdot \frac{26}{21} = \frac{1 \cdot 13}{2 \cdot 7} = \frac{13}{14}$ b) $\frac{1}{18} : \frac{1}{28} = \frac{1}{18} \cdot \frac{28}{1} = \frac{1 \cdot 14}{9 \cdot 1} = 1 \frac{5}{9}$
- c) $\frac{5}{14} : \frac{3}{16} = \frac{5}{14} \cdot \frac{16}{3} = \frac{5 \cdot 8}{7 \cdot 3} = 1 \frac{19}{21}$ d) $\frac{6}{25} : \frac{4}{11} = \frac{6}{25} \cdot \frac{11}{4} = \frac{3 \cdot 11}{25 \cdot 2} = \frac{33}{50}$
- ③ a) $\frac{4}{9} : \frac{2}{9} = \frac{4}{9} \cdot \frac{9}{2} = \frac{2 \cdot 1}{1 \cdot 1} = 2$ b) $\frac{23}{30} : \frac{1}{2} = \frac{23}{30} \cdot \frac{2}{1} = \frac{23 \cdot 1}{15 \cdot 1} = 1 \frac{8}{15}$
- c) $\frac{3}{7} : \frac{12}{17} = \frac{3}{7} \cdot \frac{17}{12} = \frac{1 \cdot 17}{7 \cdot 4} = \frac{17}{28}$ d) $\frac{2}{35} : \frac{2}{27} = \frac{2}{35} \cdot \frac{27}{2} = \frac{1 \cdot 27}{35 \cdot 1} = \frac{27}{35}$
- ④ a) $\frac{6}{13} : \frac{3}{11} = \frac{6}{13} \cdot \frac{11}{3} = \frac{2 \cdot 11}{13 \cdot 1} = 1 \frac{9}{13}$ b) $\frac{5}{9} : \frac{5}{14} = \frac{5}{9} \cdot \frac{14}{5} = \frac{1 \cdot 14}{9 \cdot 1} = 1 \frac{5}{9}$
- c) $\frac{2}{15} : \frac{1}{5} = \frac{2}{15} \cdot \frac{5}{1} = \frac{2 \cdot 1}{3 \cdot 1} = \frac{2}{3}$ d) $\frac{2}{3} : \frac{17}{27} = \frac{2}{3} \cdot \frac{27}{17} = \frac{2 \cdot 9}{1 \cdot 17} = 1 \frac{1}{17}$
- ⑤ a) $\frac{3}{4} : \frac{6}{23} = \frac{3}{4} \cdot \frac{23}{6} = \frac{1 \cdot 23}{4 \cdot 2} = 2 \frac{7}{8}$ b) $\frac{2}{7} : \frac{4}{9} = \frac{2}{7} \cdot \frac{9}{4} = \frac{1 \cdot 9}{7 \cdot 2} = \frac{9}{14}$
- c) $\frac{5}{34} : \frac{2}{17} = \frac{5}{34} \cdot \frac{17}{2} = \frac{5 \cdot 1}{2 \cdot 2} = 1 \frac{1}{4}$ d) $\frac{7}{10} : \frac{7}{11} = \frac{7}{10} \cdot \frac{11}{7} = \frac{1 \cdot 11}{10 \cdot 1} = 1 \frac{1}{10}$