

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

① a)  $\frac{3}{8} : \frac{1}{32} =$

b)  $\frac{1}{12} : \frac{2}{15} =$

c)  $\frac{1}{3} : \frac{8}{33} =$

d)  $\frac{7}{25} : \frac{1}{5} =$

② a)  $\frac{1}{4} : \frac{13}{20} =$

b)  $\frac{2}{19} : \frac{2}{9} =$

c)  $\frac{4}{11} : \frac{5}{22} =$

d)  $\frac{5}{8} : \frac{1}{10} =$

③ a)  $\frac{2}{25} : \frac{2}{21} =$

b)  $\frac{8}{9} : \frac{5}{6} =$

c)  $\frac{1}{12} : \frac{1}{16} =$

d)  $\frac{12}{29} : \frac{2}{3} =$

④ a)  $\frac{2}{5} : \frac{18}{25} =$

b)  $\frac{1}{4} : \frac{3}{44} =$

c)  $\frac{5}{9} : \frac{2}{15} =$

d)  $\frac{3}{10} : \frac{6}{19} =$

⑤ a)  $\frac{5}{33} : \frac{1}{18} =$

b)  $\frac{8}{21} : \frac{2}{7} =$

c)  $\frac{1}{8} : \frac{7}{34} =$

d)  $\frac{21}{40} : \frac{1}{2} =$

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

- ① a)  $\frac{3}{8} : \frac{1}{32} = \frac{3}{8} \cdot \frac{32}{1} = \frac{3 \cdot 4}{1 \cdot 1} = 12$       b)  $\frac{1}{12} : \frac{2}{15} = \frac{1}{12} \cdot \frac{15}{2} = \frac{1 \cdot 5}{4 \cdot 2} = \frac{5}{8}$
- c)  $\frac{1}{3} : \frac{8}{33} = \frac{1}{3} \cdot \frac{33}{8} = \frac{1 \cdot 11}{1 \cdot 8} = 1 \frac{3}{8}$       d)  $\frac{7}{25} : \frac{1}{5} = \frac{7}{25} \cdot \frac{5}{1} = \frac{7 \cdot 1}{5 \cdot 1} = 1 \frac{2}{5}$
- ② a)  $\frac{1}{4} : \frac{13}{20} = \frac{1}{4} \cdot \frac{20}{13} = \frac{1 \cdot 5}{1 \cdot 13} = \frac{5}{13}$       b)  $\frac{2}{19} : \frac{2}{9} = \frac{2}{19} \cdot \frac{9}{2} = \frac{1 \cdot 9}{19 \cdot 1} = \frac{9}{19}$
- c)  $\frac{4}{11} : \frac{5}{22} = \frac{4}{11} \cdot \frac{22}{5} = \frac{4 \cdot 2}{1 \cdot 5} = 1 \frac{3}{5}$       d)  $\frac{5}{8} : \frac{1}{10} = \frac{5}{8} \cdot \frac{10}{1} = \frac{5 \cdot 5}{4 \cdot 1} = 6 \frac{1}{4}$
- ③ a)  $\frac{2}{25} : \frac{2}{21} = \frac{2}{25} \cdot \frac{21}{2} = \frac{1 \cdot 21}{25 \cdot 1} = \frac{21}{25}$       b)  $\frac{8}{9} : \frac{5}{6} = \frac{8}{9} \cdot \frac{6}{5} = \frac{8 \cdot 2}{3 \cdot 5} = 1 \frac{1}{15}$
- c)  $\frac{1}{12} : \frac{1}{16} = \frac{1}{12} \cdot \frac{16}{1} = \frac{1 \cdot 4}{3 \cdot 1} = 1 \frac{1}{3}$       d)  $\frac{12}{29} : \frac{2}{3} = \frac{12}{29} \cdot \frac{3}{2} = \frac{6 \cdot 3}{29 \cdot 1} = \frac{18}{29}$
- ④ a)  $\frac{2}{5} : \frac{18}{25} = \frac{2}{5} \cdot \frac{25}{18} = \frac{1 \cdot 5}{1 \cdot 9} = \frac{5}{9}$       b)  $\frac{1}{4} : \frac{3}{44} = \frac{1}{4} \cdot \frac{44}{3} = \frac{1 \cdot 11}{1 \cdot 3} = 3 \frac{2}{3}$
- c)  $\frac{5}{9} : \frac{2}{15} = \frac{5}{9} \cdot \frac{15}{2} = \frac{5 \cdot 5}{3 \cdot 2} = 4 \frac{1}{6}$       d)  $\frac{3}{10} : \frac{6}{19} = \frac{3}{10} \cdot \frac{19}{6} = \frac{1 \cdot 19}{10 \cdot 2} = \frac{19}{20}$
- ⑤ a)  $\frac{5}{33} : \frac{1}{18} = \frac{5}{33} \cdot \frac{18}{1} = \frac{5 \cdot 6}{11 \cdot 1} = 2 \frac{8}{11}$       b)  $\frac{8}{21} : \frac{2}{7} = \frac{8}{21} \cdot \frac{7}{2} = \frac{4 \cdot 1}{3 \cdot 1} = 1 \frac{1}{3}$
- c)  $\frac{1}{8} : \frac{7}{34} = \frac{1}{8} \cdot \frac{34}{7} = \frac{1 \cdot 17}{4 \cdot 7} = \frac{17}{28}$       d)  $\frac{21}{40} : \frac{1}{2} = \frac{21}{40} \cdot \frac{2}{1} = \frac{21 \cdot 1}{20 \cdot 1} = 1 \frac{1}{20}$