



Bevor du gemischte Zahlen dividieren kannst, wandelst du sie in unechte Brüche um.

Rechne aus:  $3\frac{1}{4} : 5\frac{1}{5}$

Umwandeln:  $3\frac{1}{4} = \frac{13}{4}$        $5\frac{1}{5} = \frac{26}{5} = \frac{13}{4} : \frac{26}{5}$

Kehrwert:  $\frac{13}{4} \cdot \frac{5}{26}$       Kürzen:  $\frac{1}{4} \cdot \frac{5}{2}$

$= \frac{5}{8}$

Aufgaben:

- $2\frac{1}{9} : 6\frac{3}{4} =$
- $5\frac{7}{8} : 3\frac{3}{2} =$
- $8\frac{4}{3} : 2\frac{7}{6} =$
- $11\frac{2}{5} : 2\frac{5}{9} =$
- $15\frac{3}{2} : 5\frac{1}{2} =$
- $3\frac{4}{9} : 10\frac{1}{2} =$
- $4\frac{3}{5} : 9\frac{2}{7} =$
- $2\frac{7}{9} : 8\frac{3}{4} =$
- $3\frac{1}{4} : 8\frac{2}{5} =$

$$\bullet \quad 9\frac{2}{3} : 16\frac{1}{3} =$$

$$\bullet \quad 12\frac{3}{4} : 8\frac{1}{6} =$$

$$\bullet \quad 2\frac{1}{8} : 5\frac{2}{5} =$$

$$\bullet \quad 7\frac{1}{3} : 3\frac{2}{3} =$$

$$5\frac{3}{5} : 1\frac{7}{10} =$$

## LÖSUNG

- $2\frac{1}{9} : 6\frac{3}{4} = \frac{19}{9} : \frac{27}{4} = \frac{19}{9} \cdot \frac{4}{27} = \frac{76}{243}$
- $5\frac{7}{8} : 3\frac{3}{2} = \frac{47}{8} : \frac{9}{2} = \frac{47}{8} \cdot \frac{2}{9} = \frac{47}{4} \cdot \frac{1}{9} = \frac{47}{36} = 1\frac{11}{36}$
- $8\frac{4}{3} : 2\frac{7}{6} = \frac{28}{3} : \frac{19}{6} = \frac{28}{3} \cdot \frac{6}{19} = \frac{28}{1} \cdot \frac{2}{19} = \frac{56}{19} = 2\frac{18}{19}$
- $11\frac{2}{5} : 2\frac{5}{9} = \frac{57}{5} : \frac{23}{9} = \frac{57}{5} \cdot \frac{9}{23} = \frac{513}{115} = 4\frac{53}{115}$
- $15\frac{3}{2} : 5\frac{1}{2} = \frac{33}{2} : \frac{11}{2} = \frac{33}{2} \cdot \frac{2}{11} = \frac{33}{1} \cdot \frac{1}{11} = \frac{33}{11} = 3$
- $3\frac{4}{9} : 10\frac{1}{2} = \frac{31}{9} : \frac{21}{2} = \frac{31}{9} \cdot \frac{2}{21} = \frac{62}{189}$
- $4\frac{3}{5} : 9\frac{2}{7} = \frac{23}{5} : \frac{65}{7} = \frac{23}{5} \cdot \frac{7}{65} = \frac{161}{325}$
- $2\frac{7}{9} : 8\frac{3}{4} = \frac{25}{9} : \frac{35}{4} = \frac{25}{9} \cdot \frac{4}{35} = \frac{5}{9} \cdot \frac{4}{7} = \frac{20}{63}$
- $3\frac{1}{4} : 8\frac{2}{5} = \frac{13}{4} : \frac{42}{5} = \frac{13}{4} \cdot \frac{5}{42} = \frac{13}{4} \cdot \frac{5}{42} = \frac{65}{168}$
- $9\frac{2}{3} : 16\frac{1}{3} = \frac{29}{3} : \frac{49}{3} = \frac{29}{3} \cdot \frac{3}{49} = \frac{29}{1} \cdot \frac{1}{49} = \frac{29}{49}$
- $12\frac{3}{4} : 8\frac{1}{6} = \frac{51}{4} : \frac{49}{6} = \frac{51}{4} \cdot \frac{6}{49} = \frac{51}{2} \cdot \frac{3}{49} = \frac{153}{98} = 1\frac{55}{98}$
- $2\frac{1}{8} : 5\frac{2}{5} = \frac{17}{8} : \frac{27}{5} = \frac{17}{8} \cdot \frac{5}{27} = \frac{85}{216}$
- $7\frac{1}{3} : 3\frac{2}{3} = \frac{22}{3} : \frac{11}{3} = \frac{22}{3} \cdot \frac{3}{11} = \frac{2}{1} \cdot \frac{3}{3} = \frac{6}{3} = 2$
- $5\frac{3}{5} : 1\frac{7}{10} = \frac{28}{5} : \frac{17}{10} = \frac{28}{5} \cdot \frac{10}{17} = \frac{28}{1} \cdot \frac{2}{17} = \frac{56}{17} = 3\frac{5}{17}$