

Dividieren von Brüchen

Lösungsblatt

LEVEL 1

$$\frac{4}{5} : \frac{3}{2} = \frac{4}{5} \cdot \frac{2}{3} = \frac{4 \cdot 2}{5 \cdot 3} = \frac{8}{15}$$

$$\frac{7}{8} : \frac{4}{3} = \frac{7}{8} \cdot \frac{3}{4} = \frac{7 \cdot 3}{8 \cdot 4} = \frac{21}{32}$$

$$\frac{1}{5} : \frac{2}{3} = \frac{1}{5} \cdot \frac{3}{2} = \frac{1 \cdot 3}{5 \cdot 2} = \frac{3}{10}$$

$$\frac{3}{8} : \frac{2}{5} = \frac{3}{8} \cdot \frac{5}{2} = \frac{3 \cdot 5}{8 \cdot 2} = \frac{15}{16}$$

LEVEL 2

$$\frac{9}{5} : \frac{3}{2} = \frac{9}{5} \cdot \frac{2}{3} = \frac{9 \cdot 2}{5 \cdot 3} = \frac{3 \cdot 2}{5 \cdot 1} = \frac{6}{5} = 1\frac{1}{5}$$

$$\frac{3}{4} : \frac{5}{2} = \frac{3 \cdot 2}{4 \cdot 5} = \frac{3 \cdot 1}{2 \cdot 5} = \frac{3}{10}$$

$$\frac{3}{10} : \frac{9}{8} = \frac{3 \cdot 8}{10 \cdot 9} = \frac{1 \cdot 8}{10 \cdot 3} = \frac{1 \cdot 4}{5 \cdot 3} = \frac{4}{15}$$

$$\frac{10}{6} : \frac{5}{4} = \frac{10 \cdot 4}{6 \cdot 5} = \frac{2 \cdot 4}{6 \cdot 1} = \frac{2 \cdot 2}{3 \cdot 1} = \frac{4}{3} = 1\frac{1}{3}$$

LEVEL 3

$$\frac{1}{2} : 4 = \frac{1}{2} \cdot \frac{1}{4} = \frac{1 \cdot 1}{2 \cdot 4} = \frac{1}{8}$$

$$\frac{2}{3} : 2 = \frac{2}{3} \cdot \frac{1}{2} = \frac{2 \cdot 1}{3 \cdot 2} = \frac{1 \cdot 1}{3 \cdot 1} = \frac{1}{3}$$

$$\frac{3}{5} : 6 = \frac{3}{5} \cdot \frac{1}{6} = \frac{3 \cdot 1}{5 \cdot 6} = \frac{1 \cdot 1}{5 \cdot 2} = \frac{1}{10}$$

$$\frac{3}{4} : 9 = \frac{3}{4} \cdot \frac{1}{9} = \frac{3 \cdot 1}{4 \cdot 9} = \frac{1 \cdot 1}{4 \cdot 3} = \frac{1}{12}$$

LEVEL 4

$$1\frac{2}{3} : \frac{2}{3} = \frac{5}{3} : \frac{2}{3} = \frac{5 \cdot 3}{3 \cdot 2} = \frac{5 \cdot 1}{1 \cdot 2} = \frac{5}{2} = 2\frac{1}{2}$$

$$1\frac{1}{5} : \frac{3}{4} = \frac{6}{5} : \frac{3}{4} = \frac{6 \cdot 4}{5 \cdot 3} = \frac{2 \cdot 4}{5 \cdot 1} = \frac{8}{5} = 1\frac{3}{5}$$

$$\frac{3}{4} : 2\frac{1}{4} = \frac{3}{4} : \frac{9}{4} = \frac{3 \cdot 4}{4 \cdot 9} = \frac{1 \cdot 4}{4 \cdot 3} = \frac{1 \cdot 1}{1 \cdot 3} = \frac{1}{3}$$

$$\frac{2}{5} : 1\frac{3}{5} = \frac{2}{5} : \frac{8}{5} = \frac{2 \cdot 5}{5 \cdot 8} = \frac{1 \cdot 5}{5 \cdot 4} = \frac{1 \cdot 1}{1 \cdot 4} = \frac{1}{4}$$

LEVEL 5

$$3\frac{3}{4} : 2\frac{1}{2} = \frac{15}{4} : \frac{5}{2} = \frac{15 \cdot 2}{4 \cdot 5} = \frac{3 \cdot 1}{2 \cdot 1} = 1\frac{1}{2}$$

$$3\frac{1}{5} : 1\frac{4}{10} = \frac{16}{5} : \frac{14}{10} = \frac{16 \cdot 10}{5 \cdot 14} = \frac{8 \cdot 2}{1 \cdot 7} = \frac{16}{7} = 2\frac{2}{7}$$