

Multiplizieren von Brüchen

Lösungsblatt

LEVEL 1

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

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

$$\frac{3}{2} \cdot \frac{2}{7} = \frac{3 \cdot 2}{2 \cdot 7} = \frac{6}{14}$$

$$\frac{1}{4} \cdot \frac{3}{5} = \frac{1 \cdot 3}{4 \cdot 5} = \frac{3}{20}$$

LEVEL 2

$$\frac{2}{3} \cdot \frac{9}{11} = \frac{2 \cdot 9}{3 \cdot 11} = \frac{2 \cdot 3}{1 \cdot 11} = \frac{6}{11}$$

$$\frac{4}{5} \cdot \frac{3}{4} = \frac{4 \cdot 3}{5 \cdot 4} = \frac{1 \cdot 3}{5 \cdot 1} = \frac{3}{5}$$

$$\frac{8}{9} \cdot \frac{3}{4} = \frac{8 \cdot 3}{9 \cdot 4} = \frac{2 \cdot 3}{9 \cdot 1} = \frac{2 \cdot 1}{3 \cdot 1} = \frac{2}{3}$$

$$\frac{2}{5} \cdot \frac{10}{8} = \frac{2 \cdot 10}{5 \cdot 8} = \frac{1 \cdot 10}{5 \cdot 4} = \frac{1 \cdot 2}{1 \cdot 4} = \frac{2}{4} = \frac{1}{2}$$

LEVEL 3

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

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

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

$$\frac{3}{4} \cdot 6 = \frac{3}{4} \cdot \frac{6}{1} = \frac{3 \cdot 6}{4 \cdot 1} = \frac{3 \cdot 3}{2 \cdot 1} = \frac{9}{2} = 4\frac{1}{2}$$

LEVEL 4

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

$$1\frac{3}{4} \cdot \frac{3}{7} = \frac{7}{4} \cdot \frac{3}{7} = \frac{7 \cdot 3}{4 \cdot 7} = \frac{1 \cdot 3}{4 \cdot 1} = \frac{3}{4}$$

$$2\frac{2}{5} \cdot \frac{5}{6} = \frac{12}{5} \cdot \frac{5}{6} = \frac{2 \cdot 5}{5 \cdot 1} = \frac{2 \cdot 1}{1 \cdot 1} = \frac{2}{1} = 2$$

$$\frac{3}{8} \cdot 2\frac{2}{9} = \frac{3}{8} \cdot \frac{20}{9} = \frac{3 \cdot 20}{8 \cdot 9} = \frac{1 \cdot 20}{8 \cdot 3} = \frac{1 \cdot 5}{2 \cdot 3} = \frac{5}{6}$$

LEVEL 5

$$1\frac{1}{4} \cdot 2\frac{1}{5} = \frac{5}{4} \cdot \frac{11}{5} = \frac{1 \cdot 11}{4 \cdot 1} = \frac{11}{4} = 2\frac{3}{4}$$

$$3\frac{2}{3} \cdot 1\frac{7}{11} = \frac{11}{3} \cdot \frac{18}{11} = \frac{1 \cdot 18}{3 \cdot 1} = \frac{1 \cdot 6}{1 \cdot 1} = 6$$