

Aufgabe 10

a)

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

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

b)

$$\frac{1}{6} : 3 = \frac{1}{6} : \frac{3}{1} = \frac{1}{6} \cdot \frac{1}{3} = \frac{1}{18}$$

$$\frac{1}{18} \cdot 3 = \frac{1 \cdot 3}{18} = \frac{1 \cdot 1}{6} = \frac{1}{6}$$

c)

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

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

d)

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

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

e)

$$12 : \frac{3}{4} = \frac{12}{1} : \frac{3}{4} = \frac{12}{1} \cdot \frac{4}{3} = \frac{4}{1} \cdot \frac{4}{1} = \frac{16}{1} = 16$$

$$16 \cdot \frac{3}{4} = \frac{16 \cdot 3}{4} = \frac{4 \cdot 3}{1} = \frac{12}{1} = 12$$

f)

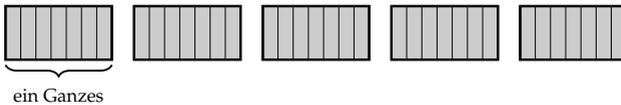
$$8 : \frac{1}{8} = \frac{8}{1} : \frac{1}{8} = \frac{8}{1} \cdot \frac{8}{1} = \frac{64}{1} = 64$$

$$64 \cdot \frac{1}{8} = \frac{64 \cdot 1}{8} = \frac{8 \cdot 1}{1} = \frac{8}{1} = 8$$

Aufgabe 11

a)

$$5 : \frac{1}{7} = \frac{5}{1} : \frac{1}{7} = \frac{5}{1} \cdot \frac{7}{1} = \frac{35}{1} = 35$$



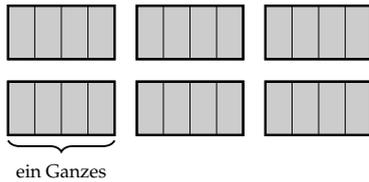
b)

$$3 : \frac{1}{10} = \frac{3}{1} : \frac{1}{10} = \frac{3}{1} \cdot \frac{10}{1} = \frac{30}{1} = 30$$



c)

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



d)

$$100 : \frac{2}{5} = \frac{100}{1} : \frac{2}{5} = \frac{100}{1} \cdot \frac{5}{2} = \frac{50}{1} \cdot \frac{5}{1} = \frac{250}{1} = 250$$

e)

$$18 : \frac{2}{3} = \frac{18}{1} : \frac{2}{3} = \frac{18}{1} \cdot \frac{3}{2} = \frac{9}{1} \cdot \frac{3}{1} = \frac{27}{1} = 27$$

f)

$$24 : \frac{8}{3} = \frac{24}{1} : \frac{8}{3} = \frac{24}{1} \cdot \frac{3}{8} = \frac{3}{1} \cdot \frac{3}{1} = \frac{9}{1} = 9$$