

Aufgabe 9

a)

$$\frac{1}{5} \text{ kg} + \frac{3}{5} \text{ kg} = \frac{4}{5} \text{ kg}$$

$$1 \text{ kg} = 1000 \text{ g}$$

$$1000 \text{ g} : 5 = 200 \text{ g}$$

$$\frac{1}{5} \text{ kg} = 200 \text{ g}$$

$$\frac{3}{5} \text{ kg} = 200 \text{ g} \cdot 3 = 600 \text{ g}$$

$$\frac{4}{5} \text{ kg} = 200 \text{ g} \cdot 4 = 800 \text{ g}$$

b)

$$\frac{3}{4} \text{ m} + \frac{3}{4} \text{ m} = \frac{6}{4} \text{ m} = 1\frac{2}{4} \text{ m} = 1\frac{1}{2} \text{ m}$$

Die Umwandlung in *dm* (die nächstkleinere Einheit) passt hier nicht!

$$1 \text{ m} = 100 \text{ cm}$$

$$100 \text{ cm} : 4 = 25 \text{ cm}$$

$$\frac{3}{4} \text{ m} = 25 \text{ cm} \cdot 3 = 75 \text{ cm}$$

$$\frac{6}{4} \text{ m} = 25 \text{ cm} \cdot 6 = 150 \text{ cm} = 1 \text{ m } 50 \text{ cm}$$

c)

$$\frac{7}{10} h + \frac{5}{10} h = \frac{12}{10} h = 1 \frac{2}{10} h = 1 \frac{1}{5} h$$

$$1 h = 60 \text{ min}$$

$$60 \text{ min} : 10 = 6 \text{ min}$$

$$\frac{7}{10} h = 6 \text{ min} \cdot 7 = 42 \text{ min}$$

$$\frac{5}{10} h = 6 \text{ min} \cdot 5 = 30 \text{ min}$$

$$\frac{12}{10} h = 6 \text{ min} \cdot 12 = 72 \text{ min} = 1 h 12 \text{ min}$$

d)

$$\frac{7}{8} l - \frac{5}{8} l = \frac{2}{8} l = \frac{1}{4} l$$

$$1 l = 1000 \text{ ml}$$

$$1000 \text{ ml} : 8 = 125 \text{ ml}$$

$$\frac{7}{8} l = 125 \text{ ml} \cdot 7 = 875 \text{ ml}$$

$$\frac{5}{8} l = 125 \text{ ml} \cdot 5 = 625 \text{ ml}$$

$$\frac{2}{8} l = 125 \text{ ml} \cdot 2 = 250 \text{ ml}$$

e)

$$\frac{7}{2} t + \frac{11}{2} t = \frac{18}{2} t = \frac{9}{1} t = 9 t$$

$$1 t = 1000 \text{ kg}$$

$$1000 \text{ kg} : 2 = 500 \text{ kg}$$

$$\frac{7}{2} t = 500 \text{ kg} \cdot 7 = 3500 \text{ kg}$$

$$\frac{11}{2} t = 500 \text{ kg} \cdot 11 = 5500 \text{ kg}$$

$$\frac{18}{2} t = 500 \text{ kg} \cdot 18 = 9000 \text{ kg}$$

f)

$$\frac{75}{100} \text{ ha} + \frac{30}{100} \text{ ha} = \frac{105}{100} \text{ ha} = 1 \frac{5}{100} \text{ ha} = 1 \frac{1}{20} \text{ ha}$$

$$1 \text{ ha} = 100 \text{ a}$$

$$100 \text{ a} : 100 = 1 \text{ a}$$

$$\frac{75}{100} \text{ ha} = 75 \text{ a}$$

$$\frac{30}{100} \text{ ha} = 30 \text{ a}$$

$$\frac{105}{100} \text{ ha} = 105 \text{ a} = 1 \text{ ha } 5 \text{ a}$$

g)

$$\frac{55}{60} \text{ min} - \frac{16}{60} \text{ min} = \frac{39}{60} \text{ min} = \frac{13}{20} \text{ min}$$

$$1 \text{ min} = 60 \text{ s}$$

$$60 \text{ s} : 60 = 1 \text{ s}$$

$$\frac{55}{60} \text{ min} = 55 \text{ s}$$

$$\frac{16}{60} \text{ min} = 16 \text{ s}$$

$$\frac{39}{60} \text{ min} = 39 \text{ s}$$

g)

$$\frac{4}{5} \text{ €} + \frac{3}{5} \text{ €} = \frac{7}{5} \text{ €} = 1\frac{2}{5} \text{ €}$$

$$1 \text{ €} = 100 \text{ ct}$$

$$100 \text{ ct} : 5 = 20 \text{ ct}$$

$$\frac{4}{5} \text{ €} = 20 \text{ ct} \cdot 4 = 80 \text{ ct}$$

$$\frac{3}{5} \text{ €} = 20 \text{ ct} \cdot 3 = 60 \text{ ct}$$

$$\frac{7}{5} \text{ €} = 20 \text{ ct} \cdot 7 = 140 \text{ ct} = 1 \text{ €} 40 \text{ ct}$$