

1. a)  $25\text{kg } 800\text{g} = \square \text{ dag}$

b)  $750\text{g} = \square \text{ kg}$

**Solution:**

$$\begin{aligned}\text{a) } 25\text{kg } 800\text{g} &= (25 \times 100) \text{ dag} + 800\text{g} [\because 1\text{kg} = 100\text{dag}] \\ &= 2500\text{dag} + (800 \div 10) \text{ dag} [\because 1 \text{ g} = \frac{1}{10} \text{ dag}] \\ &= 2500\text{dag} + 80\text{dag} \\ &= 2580\text{dag}\end{aligned}$$

$$\therefore 25\text{kg } 800\text{g} = \boxed{2580} \text{ dag}$$

$$\text{b) } 750\text{g} = (750 \div 1000) \text{ kg} [\because 1 \text{ g} = \frac{1}{1000} \text{ kg}]$$

$$= 0.75 \text{ kg}$$

$$\therefore 750\text{g} = \boxed{0.75} \text{ kg}$$

**2. Write an appropriate inequality sign, > or <, in the blank box:**

$$2.5\text{kg} \quad \square \quad 1800\text{g}$$

**Solution:**

$$\begin{aligned}\text{Here, } 2.5 \text{ kg} &= (2.5 \times 1000) \text{ g } [\because 1\text{kg} = 1000\text{g}] \\ &= 2500\text{g}\end{aligned}$$

$$\therefore 2500\text{g} > 1800\text{g}$$

$$\therefore 2.5\text{kg} \quad \square \quad 1800\text{g}$$

**3. Calculate the following addition and subtraction, and express the answer using the units in the bracket:**

**a)**  $4523\text{g} + 3388\text{g}$       (kg, hg, dag, g)

**b)**  $8520\text{g} - 3490\text{g}$       (kg, hg, dag)

**Solution:**

$$\begin{aligned}\text{a) } 4523\text{g} + 3388\text{g} \\ &= (4523 + 3388) \text{ g} \\ &= 7911\text{g} \\ &= (7911 \div 1000) \text{ kg } [\because 1 \text{ g} = \frac{1}{1000} \text{ kg}] \\ &= 7\text{kg} + 911\text{g} \\ &= 7\text{kg} + (911 \div 100) \text{ hg } [\because 1\text{g} = \frac{1}{100} \text{ hg}] \\ &= 7\text{kg} + 9\text{hg} + 11\text{g} \\ &= 7\text{kg} + 9\text{hg} + (11 \div 10) \text{ dag } [\because 1\text{g} = \frac{1}{10} \text{ dag}] \\ &= 7\text{kg} + 9\text{hg} + 1\text{dag} + 1\text{g}\end{aligned}$$

$$= 7\text{kg } 9\text{hg } 1\text{dag } 1\text{g}$$

Ans: 7kg 9hg 1dag 1g.

**b)**  $8520\text{g} - 3490\text{g}$

$$= (8520 - 3490) \text{ g}$$

$$= 5030\text{g}$$

$$= (5030 \div 10) \text{ dag } [\because 1\text{g} = \frac{1}{10} \text{ dag}]$$

$$= 503\text{dag}$$

$$= (503 \div 10) \text{ hg } [\because 1\text{dag} = \frac{1}{10} \text{ hg}]$$

$$= 50\text{hg} + 3\text{dag}$$

$$= (50 \div 10) \text{ kg} + 3\text{dag} [\because 1\text{hg} = \frac{1}{10} \text{ kg}]$$

$$= 5\text{kg} + 0\text{hg} + 3\text{dag}$$

$$= 5\text{kg } 0\text{hg } 3\text{dag}$$

Ans: 5kg 0hg 3dag.