

**Skill Set 3 – Different items, different values and different quantities**

Joanne baked some butter and chocolate cakes.  $\frac{3}{5}$  of the cakes baked were butter cakes. For each butter cake, 50g of sugar was used. For each chocolate cake, 75g of sugar was used. The total amount of sugar used was 1200g. How many butter cakes did Joanne bake?

Number of units of butter cakes = 3 units

Number of units of chocolate cakes = 2 units

Total mass of sugar used for the butter cakes =  $50\text{g} \times 3 = 150$  units

Total mass of sugar used for the chocolate cakes =  $75\text{g} \times 2 = 150$  units

$$150 + 150 = 300$$

$$300 \text{ units} = 1200\text{g}$$

$$1 \text{ unit} = 1200 \div 300 = 4$$

$$3 \text{ units} = 4 \times 3 = \mathbf{12}$$

Joanne baked **12** butter cakes.