

Weekly Question (30 Jan)

A pan holding **half a cake** weighed 710 g.

When the piece of cake is **cut into half** and **one portion was taken away**, the weight decreased to 530 g.

(a) What is the weight of a **whole cake**?

(b) What is the weight of the **pan when it is empty**?

Solution:

$$(a) \frac{1}{2} = \frac{2}{4}$$

After cutting into half and one portion was taken away,

$$\frac{1}{4} \text{ of the cake} \rightarrow 710 \text{ g} - 530 \text{ g} = 180 \text{ g}$$

$$1 \text{ whole cake } \left(\frac{4}{4}\right) \rightarrow 180 \text{ g} \times 4 = 720 \text{ g}$$

ANS: The weight of a whole cake is 720 g.

$$(b) \text{ Empty Pan} + \frac{1}{4} \text{ of the cake} \rightarrow 530 \text{ g}$$

$$\text{Empty Pan} \rightarrow 530 \text{ g} - 180 \text{ g} = 350 \text{ g}$$

ANS: The weight of the empty pan is 350 g.