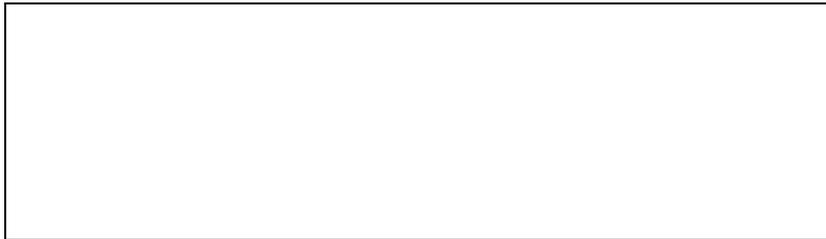


Name: _____ () Class: _____ Date: _____

Lesson Worksheet 6.3

Objective: To use various strategies to estimate measurements.

1. In the figure, the **height (高度)** of a **door (門)** is about 2 m.
- (a) Estimate the height of the **shelf unit (鞋櫃)**.
- (b) Estimate the height of the **room (房間)**.



Demonstration

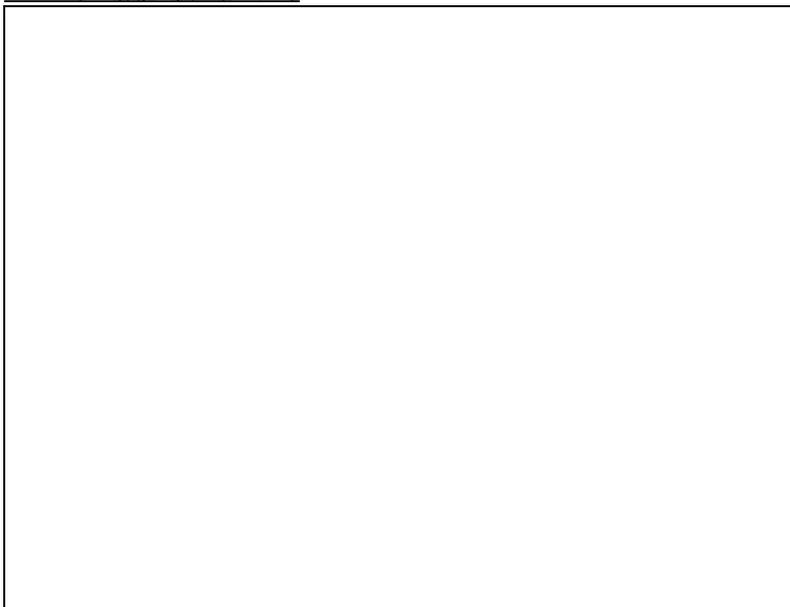
In the figure, the height of the door is about 2 m. Estimate the height of the **painting (圖畫)**, correct to the nearest 0.1 m.

Solution

The height of the painting is about $\frac{1}{3}$ of that of the door
(圖畫的高度大約是門的高度的 $\frac{1}{3}$)
 \therefore Height of the painting

$$\begin{aligned} &\approx 2 \times \frac{1}{3} \\ &= \underline{0.7 \text{ m}}, \text{ cor. to the nearest } 0.1 \text{ m} \end{aligned}$$

2. **A carton of flour (一箱麵粉)** is packed with **25 packets of flour (25 包袋裝麵粉)**. The **weight of a packet of flour (一包袋裝麵粉)** is about 1.2 kg. Estimate the **weight of a whole carton of flour (整箱麵粉的重量)**.



Demonstration

In a factory, **20 cups of the same model are packed in a bag (同款式的 20 隻杯會放入一個袋中)**. The weight of a cup is about 300 g. Estimate the **total weight (總重量)** of a bag of cups.

Solution

Total weight of a bag of cups
 $\approx 300 \times 20 \text{ g}$
 $= \underline{6000 \text{ g}}$ (or 6 kg)

3. A roll of garbage bag consists of 60 bags. If the weight of the roll is about 2.5 kg, estimate the weight of one garbage bag. Give the answer correct to the nearest g.

一卷垃圾袋內有 60 個垃圾袋。若每卷垃圾袋的重量大約是 2.5 kg，估算一個垃圾袋的重量。答案準確至最接近的 g。

Demonstration

The net weight of a pack of candies is about 380 g. There are 20 pieces of candy. Estimate the weight of a piece of candy.

一包 20 粒糖果的淨重量大約是 380 g。估算一粒糖果的重量。

Solution

Weight of a piece of candy
 $\approx 380 \div 20$ g
 $= \underline{19}$ g

4. A container is in the shape of a **cube (正方體)**. The **length of one side (邊長)** of the container is measured as 20 cm. Estimate the **capacity (容量)** of the container.

Demonstration

The **length of a side (邊長)** of a **square (正方形)** is measured as 4 cm. Estimate the **area (面積)** of the square.

Solution

Area of the square
 $\approx 4 \times 4$ cm²
 $= \underline{16}$ cm²