

1. (a) Change 365 cm into metres.

$$\begin{array}{l} 100 \text{ cm} = 1 \text{ m} \\ \downarrow \times 3.65 \downarrow \\ 365 \text{ cm} = 3.65 \text{ m} \end{array}$$

$$\begin{array}{l} \dots\dots\dots 3.65 \dots\dots \text{m} \\ (1) \end{array}$$

- (b) Change 2.7 kg into grams.

$$\begin{array}{l} 1 \text{ kg} = 1000 \text{ g} \\ \downarrow \times 2.7 \downarrow \\ 2.7 \text{ kg} = 2700 \text{ g} \end{array}$$

$$\begin{array}{l} \dots\dots\dots 2700 \dots\dots \text{g} \\ (1) \end{array}$$

$$-9 + -2 = -11 \quad \times$$

$$-2 + 2 = 0 \quad \times$$

$$-9 + 2 = -7$$

$$\boxed{-9}$$

$$\boxed{2}$$

2. Ken buys some fruit.

He buys apples, bananas, peaches and oranges.
Ken buys

4 apples weighing 125 g each
2 bananas weighing 170 g each
3 peaches weighing 135 g each

Each orange has a weight of 90 g.

The fruit has a total weight of 1.785 kg.

(a) Work out how many oranges Ken buys.

$$1.785 \text{ kg} = 1785 \text{ g}$$

Let x be the number of oranges bought

$$4 \times 125 + 2 \times 170 + 3 \times 135 + 90x = 1785$$

$$500 + 340 + 405 + 90x = 1785$$

$$1245 + 90x = 1785$$

$$(-1245) \quad (-1245)$$

$$90x = 540$$

$$(\div 90) \quad (\div 90)$$

$$x = 6$$

6

(3)

Jane wants to buy 15 tomatoes.

She asks for 1 kg of tomatoes at a shop.

Jane assumes that each tomato has a weight of 75 g.

(b) (i) If Jane's assumption is correct, will she get 15 tomatoes?

You must show how you get your answer.

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

$$1000 \div 75 = 13 \frac{2}{3}$$

$$13 \frac{2}{3} \neq 15$$

No, Jane will not get 15 tomatoes

(2)

(ii) If Jane's assumption is **not** correct, could she get 15 tomatoes?

Justify your answer.

Yes, if each tomato weighed less than 75g, then Jane could get

15 tomatoes.

(1)

(Total for Question is 6 marks)

3. Thais has a large bottle of shampoo.
There are 2 litres of shampoo in the large bottle.

Thais also has some empty small bottles.
Each small bottle can be completely filled with 150 ml of shampoo.

How many small bottles can be completely filled with shampoo from the large bottle?

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

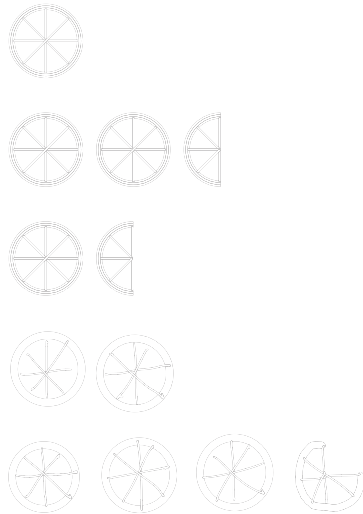
$$2\text{L} = 2000\text{ml}$$

$$2000 \div 150 = 13\frac{1}{3}$$

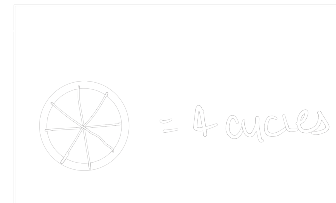
$$= 13$$

13

(Total for Question 3 is 3 marks)



1
2.5 Total 5
1.5



$$\frac{20}{5} = 4$$

Saturday

$$\frac{15}{4} = 3.75$$