



Length Mass Volume 1-Step Word Problems

FREE Worksheet - 1

Time: 20 minutes

(Detailed solutions at the end)

1. Ahmad cut a cable into 4 equal pieces of 157 cm each.

What was the length of the original cable in metres and centimetres?

Answer: _____ m _____ cm

2. There were 790 g of fruits in a basket.

After Carlos used some of the fruits to make a fruit custard, there were 371 g of fruits left in the basket.

What was the mass of fruits used to make the custard?

Answer: _____ g

3. The total mass of 3 identical magazines is 513 g.

What is the mass of each magazine?

Answer: _____ g



4. Jason has 9 bottles of ketchup.

Each bottle contains 200 ml of ketchup.

He pours all the ketchup into an empty pot.

How much ketchup will be there in the pot in the end? Write in litres and millilitres.

Answer: _____ l _____ ml

5. A bunch of lettuce has a mass of 315 g.

A bag of potatoes has a mass of 1085 g.

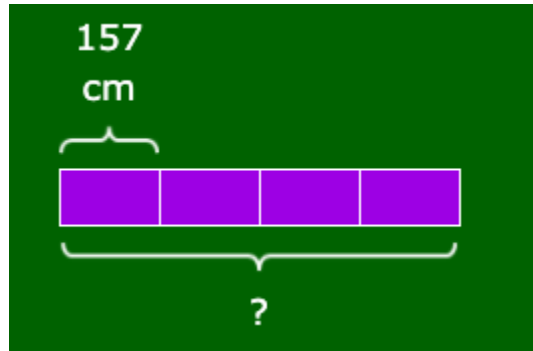
What is their total mass in kilograms and grams?

Answer: _____ kg _____ g



SOLUTIONS

Problem 1



We know,

$$100 \text{ cm} = 1 \text{ m}$$

So,

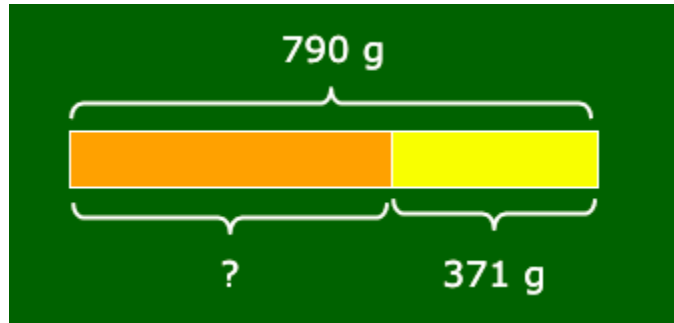
$$600 \text{ cm} = 6 \text{ m}$$

$$\begin{aligned} 157 \text{ cm} \times 4 &= 628 \text{ cm} \\ &= 600 \text{ cm} + 28 \text{ cm} \\ &= 6 \text{ m} + 28 \text{ cm} \\ &= 6 \text{ m } 28 \text{ cm} \end{aligned}$$

The length of the original cable was **6 m 28 cm**.



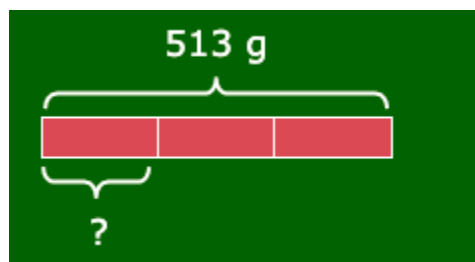
Problem 2



$$790 \text{ g} - 371 \text{ g} = 419 \text{ g}$$

419 g of fruits were used to make the custard.

Problem 3

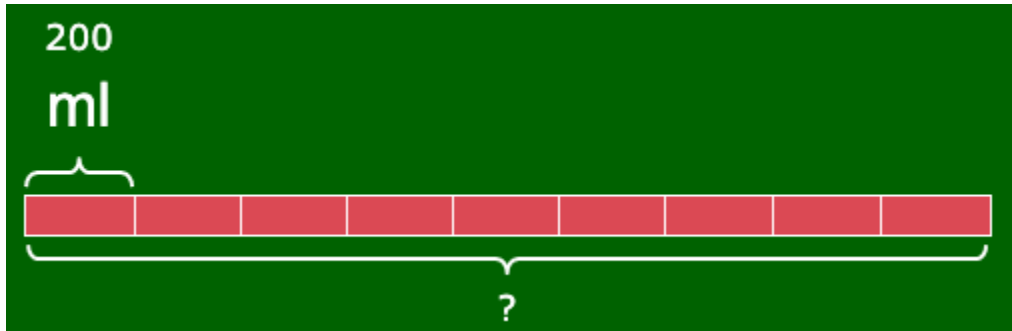


$$513 \text{ g} \div 3 = 171 \text{ g}$$

The mass of each magazine is **171 g**.



Problem 4



We know,

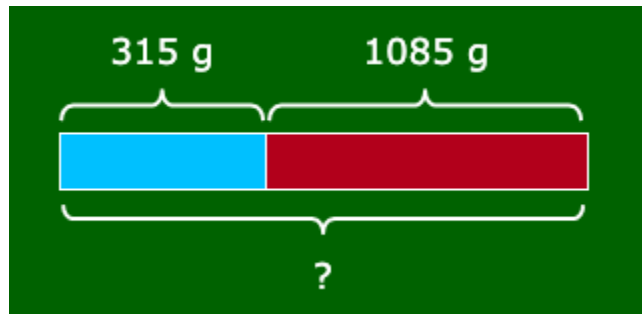
$$1000 \text{ ml} = 1 \text{ l}$$

$$\begin{aligned} 200 \text{ ml} \times 9 &= 1800 \text{ ml} \\ &= 1000 \text{ ml} + 800 \text{ ml} \\ &= 1 \text{ l} + 800 \text{ ml} \\ &= 1 \text{ l } 800 \text{ ml} \end{aligned}$$

There will be **1 l 800 ml** of ketchup in the pot in the end.



Problem 5



We know,

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

$$\begin{aligned} 315 \text{ g} + 1085 \text{ g} &= 1400 \text{ g} \\ &= 1000 \text{ g} + 400 \text{ g} \\ &= 1 \text{ kg} + 400 \text{ g} \\ &= 1 \text{ kg } 400 \text{ g} \end{aligned}$$

Their total mass is **1 kg 400 g**.