



## **Length Mass Volume 2-Steps Word Problems**

**FREE Worksheet - 3**

**Time: 20 minutes**

(Detailed solutions at the end)

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1. Annabel had 6 m 5 cm of wooden log.

She used 290 cm of it to make a bench.

Then she cut the remaining wooden log into 5 equal pieces.

What was the length of each piece?

Answer: \_\_\_\_\_ cm

2. A book shelf has a mass of 90 kg.

It is 6 times as heavy as a box of books.

Find the total mass of the book shelf and the box of books.

Answer: \_\_\_\_\_ kg

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3. Mr. Ali had 17 empty pails, each of capacity 4 l .

He also had a barrel containing 28 l of water.

He poured out all the water from the barrel to completely fill some of the pails.

In the end, how many pails were left empty?

Answer: \_\_\_\_\_ pails

4. A baby has a mass of 10 kg.

A boy is twice as heavy as the baby.

A girl is 5 kg lighter than the boy.

What is the mass of the girl?

Answer: \_\_\_\_\_ kg



5. Lukas had 730 ml of coffee shake in a jar.

He gave 105 ml of the coffee shake to his sister

and poured the rest equally into 5 glasses.

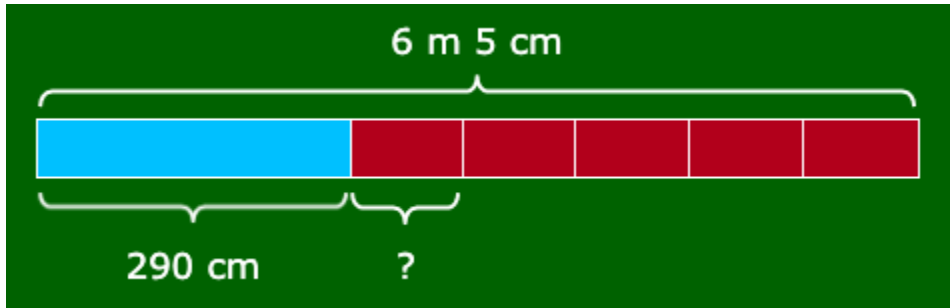
How much coffee shake was there in each glass?

Answer: \_\_\_\_\_ ml



## SOLUTIONS

### Problem 1



$$\begin{aligned} 6 \text{ m } 5 \text{ cm} - 290 \text{ cm} &= 605 \text{ cm} - 290 \text{ cm} \\ &= 315 \text{ cm} \end{aligned}$$

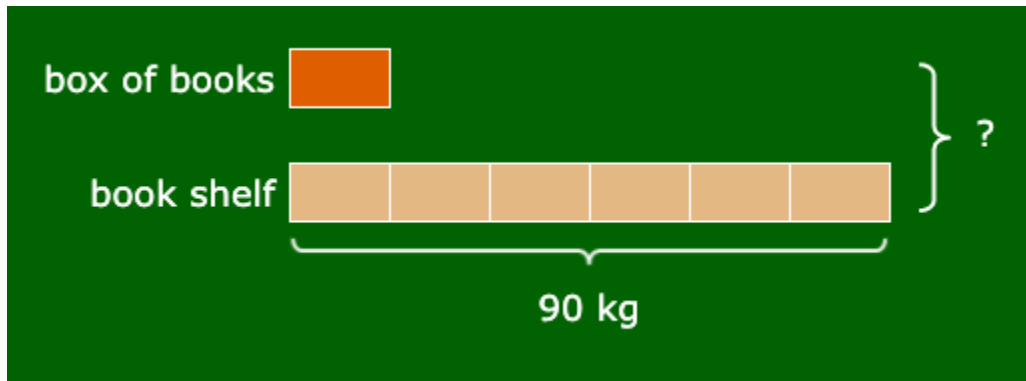
The total length of the remaining wooden log was 315 cm.

$$315 \text{ cm} \div 5 = 63 \text{ cm}$$

The length of each piece of wooden log was **63 cm**.



**Problem 2**



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$$90 \text{ kg} \div 6 = 15 \text{ kg}$$

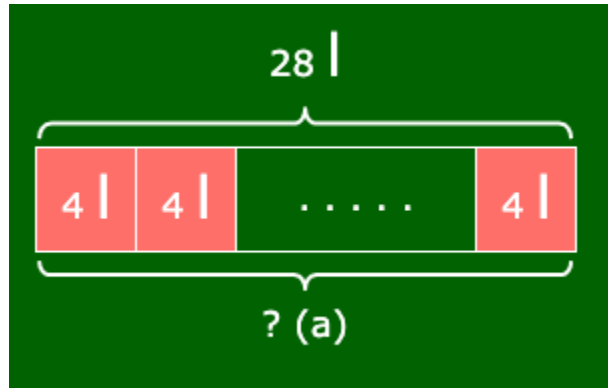
The mass of the box of books is 15 kg.

$$90 \text{ kg} + 15 \text{ kg} = 105 \text{ kg}$$

The total mass of the book shelf and the box of books is **105 kg**.



**Problem 3**



$$28 \div 4 = 7 \text{ (a)}$$

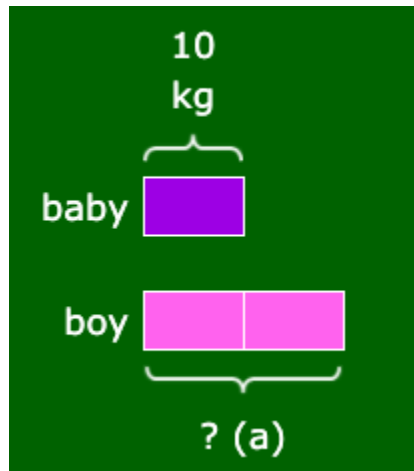
28 l of water could fill 7 pails completely.

$$17 - 7 = 10$$

In the end, **10 pails** were left empty.



**Problem 4**



$$10 \text{ kg} \times 2 = 20 \text{ kg (a)}$$

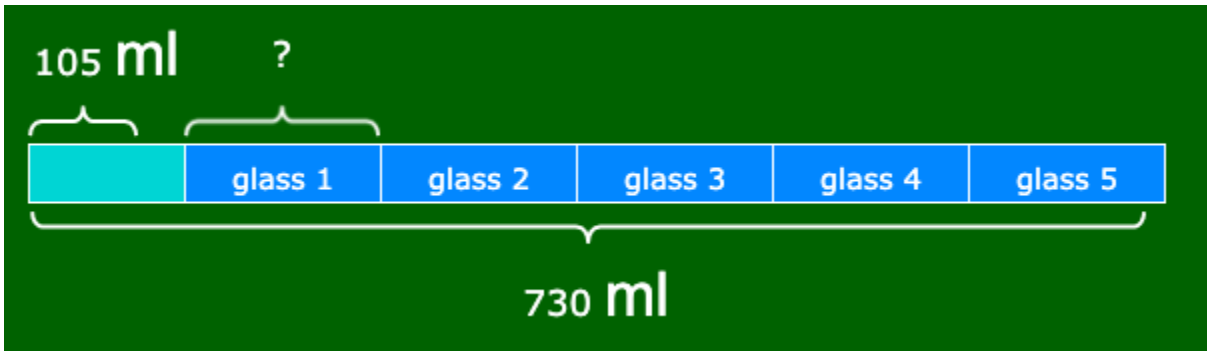
The mass of the boy is 20 kg.

$$20 \text{ kg} - 5 \text{ kg} = 15 \text{ kg}$$

The mass of the girl is **15 kg**.



**Problem 5**



$$730 \text{ ml} - 105 \text{ ml} = 625 \text{ ml}$$

He poured a total of 625 ml of coffee shake into the 5 glasses.

$$625 \text{ ml} \div 5 = 125 \text{ ml}$$

Each glass had **125 ml** of coffee shake.