

## Problem Solving Part 2: Length & Mass

Middle Primary Advance Maths

Solve the following word problems.

1. In a money box, there are 8 one- dollar coins.  
Each coin has a mass of 5 g.  
The total mass of the money box with the coins inside is 325g.  
Find the mass of the empty money box.



Do your workings below.

Ans: \_\_\_\_\_ g

2. Chelsea's dog, Teddy, ran around a square field twice.  
Each side of the field has a length of 30m.  
What is the total distance the dog ran?



Do your workings below.

Ans: \_\_\_\_\_ m

## Problem Solving Part 2: Length & Mass - Solutions

Middle Primary Advance Maths

Solve the following word problems.

- In a money box, there are 8 one- dollar coins.  
Each coin has a mass of 5 g.  
The total mass of the money box with the coins inside is 325g.  
Find the mass of the empty money box.



Do your workings below.

$$\text{Total mass of the 8 coins} = 8 \times 5\text{g} = 40\text{g}$$

$$\text{Mass of coins and money box} = 325\text{g}$$

$$\text{Mass of empty money box} = 325 - 40 = \mathbf{285\text{g}}$$

Ans:       **285**       g

- Chelsea's dog, Teddy, ran around a square field twice.  
Each side of the field has a length of 30m.  
What is the total distance the dog ran?



Do your workings below.

$$\text{Perimeter of 1 round} = 30 + 30 + 30 + 30 = 120\text{m}$$

$$\text{Teddy ran } 120 \text{ m for 1 round.}$$

$$\text{For 2 rounds, } 120 \times 2 = \mathbf{240\text{m}}$$

Ans:       **240**       m