

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

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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.

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

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

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



Ans: **285** g

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.



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

Teddy ran 120 m for 1 round.

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

Ans: **240** m