# HighScore.ai Assignment – AI-Generated Mathematics Questions

Total Marks: 2

Instructions: Answer the following questions. Each question carries 1 mark.

1. Q1. (Easy) Geometry – Perimeter and Area (1 mark)

A rectangular garden has a perimeter of 50 meters. If the length of the garden is 15 meters, what is the width of the garden in meters?

Instruction: Calculate the width of the rectangular garden.

* • [A] 10 meters
* • [C] 25 meters
* • [D] 5 meters

Explanation:

The perimeter of a rectangle is given by the formula $P = 2l + 2w$, where $P$ is the perimeter, $l$ is the length, and $w$ is the width. We are given that $P = 50$ meters and $l = 15$ meters. Substituting these values into the formula, we get $50 = 2(15) + 2w$. Simplifying, we have $50 = 30 + 2w$. Subtracting 30 from both sides gives $20 = 2w$. Dividing both sides by 2, we find that $w = 10$ meters.

1. Q2. (Easy) Ratio and Proportion – Unit Rate (1 mark)

A baker uses 250 grams of flour to make 5 identical loaves of bread. How many grams of flour are needed to make 1 loaf of bread?

Instruction: Determine the amount of flour needed for one loaf.

* • [A] 50 grams
* • [C] 1250 grams
* • [D] 245 grams

Explanation:

To find the amount of flour needed for one loaf, divide the total amount of flour used by the number of loaves made: 250 grams / 5 loaves = 50 grams/loaf.