



MATHEMATICS 2026

GRADE 7 PROJECT

TERM 3

MARKS: 50

DUE DATE: SEPTEMBER 2026

CIRCUIT	
SCHOOL NAME	
CLASS (e.g. 6 A)	
NAME & SURNAME	

GENDER (✓)

BOY	GIRL
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DATE OF BIRTH

y	y	y	y	m	m	d	d
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Content Area	Topics
Numbers, Operations and Relationships	Whole numbers (Addition, Subtraction, Multiplication, Division, Percentages) Decimal Fractions
Patterns Function and Algebra	Numeric Patterns Functions & Relationships
Space and shapes	Properties of 2D shapes Symmetry
Measurement	Area & Perimeter

Instructions to learners:

1. Read all instructions carefully.
2. Answer Questions the spaces or frames provided.
3. Show all working (where necessary).
4. The use of calculators is not allowed.
5. Write neatly and legibly.

PROBLEM STATEMENT:

Gardening is always an excellent and environment-friendly idea and if you can create a sustainable garden, it could be useful for all. Grade 7 learners should design and create a garden that is sustainable at the school. By the end of this project, **the learners should be able to submit a proposal to the SMT**, motivating the need for a sustainable and environmentally friendly garden and **provide the total cost for the garden fence needed to fence the garden.**

ACTIVITY 1 - STARTING THE PROJECT**[5]**

The learners should start in class with their **planning**. This should be done so that the teacher can see whether the learners understand the project well. Learners can **do their first planning on a sheet of paper**. The **garden should at least comprise a space of 30 m x 20 m**. The learners should now be creative and plan all features of the garden. The garden must comply with the minimum requirements: **Model: 300 mm x 200 mm garden with a scale of 1 cm:1 m**. They will also need to consider all expenses and create a budget in which to complete the actual garden.

1.1 What **type of quadrilateral** is the shape of the garden? (1)

1.2 How **many** angles are there in the 2D shape of the garden? (1)

1.3 What type of **angles** do you observe in this quadrilateral? (1)

1.4 What is the **size** of each **angle**? (1)

1.5 How many **pairs of equal sides** does the quadrilateral have? (1)

ACTIVITY 2 – DRAWING THE PLAN**[13]**

2.1 Use an appropriate scale to **draw the Plan/map of the garden to be fenced**. The scale of this plan must be **1 cm : 1 m**. Show your dimensions on the plan. (3)

NB: A separate sheet of paper must be used for the drawing.

- 2.2 Use your **Plan/ Map** of your garden to collect the following information about your garden and **write it in the space provided**. N.B. Write the correct unit of measure (10)

Length (m)	Width / Breadth (m)	Perimeter of the garden	Area of the garden

ACTIVITY 3 - DETERMINING COSTS

[15]

In your research you found that **5m garden fence cost R1 650** in the hardware shop. There is a **sale** in the shop and the **garden fence is marked 15% off**.

- 3.1 **How many 5m rolls** of garden fence will be needed to fence the garden? (3)

- 3.2 Calculate the cost for the fence to cover **the total perimeter** of the garden to be fenced **before discount**. (3)

- 3.3 Calculate the **discount amount Of 5m** (3)

- 3.4 Calculate the **new price** of the fence after discount.(**5m**) (3)

- 3.5 Calculate the cost for the fence to cover **the total perimeter** of the garden to be fenced after discount. (3)

ACTIVITY 4 – REPRESENTING DATA IN THE TABLE

[10]

The table below shows the number of 5m garden fence rolls that can be used to fence the garden.

- 4.1 Complete the table below: (6)

Number of 5m rolls of the fence	1	2	3	4	5	10			20
Perimeter of the garden in metres	5	10	15				75	90	

- 4.2 Describe the pattern in the table above in your **own words**. (2)

- 4.3 Write the **general rule** of the pattern in the above table. (2)

ACTIVITY 5 – WRITING THE REPORT

[7]

Write a **report** to submit a proposal to the SMT, **motivating the need** for a sustainable and environmentally friendly garden. **Provide the total costs** as requested.

TOTAL = 50 MARKS