

**GUYANA
MINISTRY OF EDUCATION
NATIONAL GRADE NINE ASSESSMENT
2015**

MATHEMATICS

PROJECT

Project 1 Planning an Event

Prepare a proposal for any **one** of the following events.

Your class is planning to:

- (i) honour someone special in the community.

- (ii) congratulate a winning team.

- (iii) celebrate a religious festival.

Instructions

1. You need to decide on:
 - when the event will occur and its location,
 - the type of decoration,
 - entertainment of your choice,
 - refreshments of your choice,
 - seating arrangements,
 - relevant graphics, flyers, programmes that will enhance your proposal.

2. **Activities**

Prepare a proposal to show how you can raise funds for the event.

- You may solicit no more than 20% of your funds from donors. Should you choose to do so, a sample letter must be included.
- Give a detailed description of your activity by showing:
 - source of your income
 - how you raised the funds
 - the methods/activities used to raise funds.
- Show samples of the raffle sheet, bingo card, etc. (**These must be included in your appendix**)

Research

Prepare a table to show the:

- items you need
- unit cost of each item
- quantity of each item required
- total cost of each item
- source of each item
- total estimated cost of the proposed event.

3. **Analysis**

- Use a suitable statistical graph to illustrate the estimated cost of the proposed event - decoration, refreshments, entertainment, etc.
- Explain why your proposal is well planned.
 - (i) Compare the funds you plan to raise to the estimated cost of the proposed event.
 - (ii) Is the venue appropriate? Give reasons.
 - (iii) What is the maximum number of persons you can invite?

4. **Conclusion**

Write a brief summary, describing **two (2)** personal benefits gained from doing this project e.g. (i) Give real-life connections

(ii) Mathematical skills acquired

Project 2

Fencing an athletic track

At the back of your school, there is a sports area for track and field events. The area has been selected as the location to hold a National Track meet. In preparation for this event, the Ministry of Education wants to install a new security fencing around the track.

The track is an equal quadrant track, which means that it is 400 metres around with 100 metres along each curve and 100 metres along each straightway.

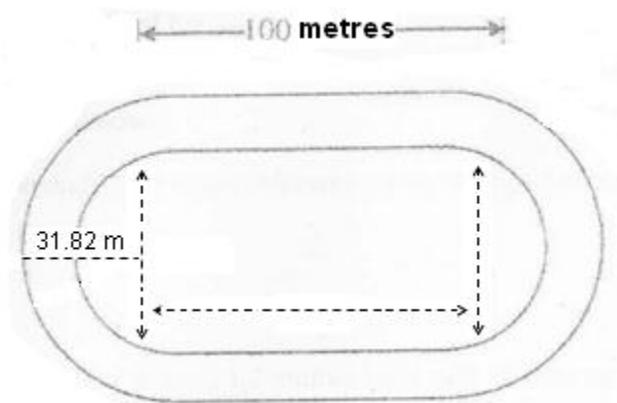


Diagram not drawn to scale.

Instructions

1. A rectangular fence will be placed around the track. The fence needs to be positioned at least 4 metres away from the edge of the track.
2. **Research:**
 - (i) Determine which type of fencing is needed e.g. wooden, chain-link or concrete. Sketch a diagram to show your fence.
 - (ii) Determine the perimeter of the fence required. Show your calculations for this perimeter.
 - (iii) Using a suitable height of the fence determine how much materials is needed for your fence - number of staves or wood, number of rolls of chainlink fencing or number of concrete blocks.

(iv) Prepare a table to show:

- how much of each type of material is needed e.g. wood, blocks, nails, etc.
- the cost of the type of material
- the total estimated cost for this material
- other related cost such as transportation, rental of equipment, etc.
- labour cost
- total estimated cost of the fence.

3. **Analysis**

- Use a suitable statistical graph to illustrate the materials cost, labour, other related cost.
- Explain the reason(s) for choosing the material used.
- State the reason(s) for number of blocks or staves or wood being adequate, and for the spacing.

4. **Conclusion**

Justify why your fence is secure.

END OF PROJECT