



GRADE 11 MATHEMATICAL LITERACY TERM 3 TEST

QUESTION 1

17 MARKS

Mark wants to build a loft for his daughter. See the plan on Annexure A to answer the questions that follow.

- 1.1 Is the plan shown on Annexure A, an elevation or floorplan? (2)
- 1.2 How many doors are visible on the map? (2)
- 1.3 What is represented by the lines A – D? (2)
- 1.4 In what direction does the balcony face? (2)
- 1.5 Determine the area of the balcony if it is 10% of the total 64m² area. (2)
- 1.6 If they get a quote of R70500, determine the price per square meter. (2)
- 1.7 Draw 2 x elevations (West, South) of the loft from the same angle with a scale of 1:1,5m
Assume the loft is on top of a garage with no windows. (8)

QUESTION 2

21 MARKS

Jesse is saving up for the holidays. She decides to sell brownies at the local farmer's market every Saturday. The amounts indicated below will yield 105 brownies and she decides to sell them for R7,00 a piece.

Cocoa	R102,50
Butter	R48,80
Sugar	R38,20
Eggs	R68,60

- 2.1 Give TWO ideas on how Jesse can promote brownie sales. (2)
- 2.2 What does it mean to break even? (2)
- 2.3 She determines that other expenses will add up to about R80,00. Determine how many brownies she should sell to break even. (5)
- 2.4 Indicate your results for Question 2.3 on a graph. (2)
- 2.5 Is R7,00 an appropriate selling price? Give a reason for your answer. (2)
- 2.6 She sells 50 brownies every Saturday for 8 weeks for R8,30 a piece. Determine her income. (2)
- 2.7 She calculates that one brownie costs her R8,20 to produce. What is her profit margin? (2)
- 2.8 To fund this project, Jesse borrowed R1000,00 from her dad with a 2% interest rate. Determine the amount she must repay him. (2)

QUESTION 3

12 MARKS

- 3.1 Mr Johnson invests money in a fixed deposit account. He invests R2000 at an interest rate of 7,8% year. Use the table below to calculate how much his investment would be worth on 30 April if he made the investment on 15 January.

Month	No. of Days	Opening balance	Daily interest	Monthly interest	Closing balance
Jan					
Feb					
March					
April					

(6)

- 3.2 Mr Johnson wants to renew his cellphone contract and considers the following options.

Option A: Fixed monthly amount of R400 for 100min and 5000MB data	Option B: Monthly fee of R28, and a tariff of R1,30 per minute and R0,80 per 25MB	Option C: Monthly fee of R34, and a tariff of R0,99 per minute and R0,75 per 25MB	Option D: Monthly fee of R390 for 150 minutes and 5000MB. Extra minutes at a tariff of R1,45 per minute
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