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Gr. 10 Mathematical Literacy

Term 2 - 2024

Paper 2

Total: 50 marks

Time: 1 hour

Learner's name: _____ Gr. 10: _____

Instructions and information:

- This question paper consists of two questions, answer both questions.
- The use of a calculator is not allowed.
- No Tip - Ex may be used.
- Show all the steps that were required in order to get to the answer.
- Good luck!

QUESTION	TOPIC	TOTAL
1	Finances	20
2	Distance / Temperature and volume	15
3	Map work	15
TOTAL		50

QUESTION 1

Sara is an aspiring chef who dreams of opening her own bakery. She recently graduated from culinary school and has saved up some money to start her business. Sara has found the perfect spot for her bakery but needs to calculate the costs involved in setting it up.

- 1.1 The rent for the bakery space is R 5 500 per month. If Sara plans to rent the space for one year and 6 months, how much will she spend on rent in total? (2)
- 1.2 Sara needs to purchase baking equipment, including an oven, mixer, and refrigerator, which costs a total of R 6 800. If she plans to pay 30% of the total cost upfront as a deposit and finance the remaining amount with a loan.
- 1.2.1) How much money does she need to pay initially with the 30%? (7)
- 1.2.2) Calculate the total cost of the baking equipment if the amount after the deposit needs to be paid back over two years at 1% simple interest. (3)
- 1.3 Sara plans to hire two assistant bakers to help with baking and customer service. If each assistant earns R 75 per hour and works 40 hours per week, how much will Sara spend on labor costs per month? (3)
- 1.4 To attract customers, Sara plans to offer a variety of baked goods, including cakes, pastries, and bread. If she estimates that the cost of ingredients for each item is as follows: R25 for a cake, R18 for pastries, and R22 for bread, and she wants to maintain a 30% profit margin on each item, what should Sara price each item to ensure a profit? (5)

Redraw the following table to answer question 1.4

Item	Original price	New Price
Cake	R 25	
Pastries	R 18	
Bread	R 22	

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H Kauffman



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