Bergvliet High School

GRADE 11
Mathematical Literacy
November Examination
Paper 1
2024

MARKS: 100 **TIME: 2 HOURS**
EXAMINER: MR P FURSTENBURG **MODERATOR: MR B SILJEUR**

NAME: _____ **TEACHER: FR / GW / SI / WM**

QUESTION	MARK	LEARNERS MARK
Q 1	**25**	
Q 2	**35**	
Q 3	**25**	
Q 4	**15**	
Total	**100**	**/ 100**

INSTRUCTIONS AND INFORMATION

- Answer all the questions
- Read each question carefully and answer all questions on the question paper
- Use black or blue ink only and no correctional fluid is permitted
- Indicate units of measurement. Marks may be deducted if not indicated
- A non-programmable calculator may be used
- Round off ALL final answers appropriately according to the given context, unless stated otherwise
- Please write neatly and legibly

QUESTION 1

1.1.1	**Value Added Tax ✓**	
	15 % ✓	(2)
1.1.2	**4 items ✓✓**	(2)
1.1.3	**R45✓ / 2 ✓ = R22, 50 ✓**	
		(3)
1.1.4	**950 / 1 000 ✓ x R49,99 ✓ = R47,49 ✓**	
		(3)
1.1.5	**10:43 ✓✓**	(2)
1.1.6	**R35,99 / 1,15 ✓**	
	= R 31, 295 ✓	
	= R31,30 ✓	(3)
1.2.1	**Discreet Data ✓✓**	(2)
1.2.2	**New Zealand ✓**	
	South Africa ✓	(2)
1.2.3	**1645 – 1250 ✓**	
	= 395 ✓	(2)
1.2.4	**Australia ✓✓**	(2)
1.2.5	**England ✓✓**	(2)
		[25]

QUESTION 2

2.1.1	**A R0 ✓** **E R2 239,50 – R450 = R1 789,50 (Loss) ✓** **B R 2000 ✓** **F 50 (R239,50) + R2 000 ✓ = R13 975 ✓** **C -R 2 000 ✓** **G R22 500 – R13 975 ✓ = R8 525 (Profit) ✓** **D R450 ✓**	(8)
2.1.2	**Profit = (450 x 9) – (2 000 + (239,50 x9)) ✓** **= 4050 – 4155,50 ✓** **= - R105,50 (or R105,50 loss) ✓** **INVALID STATEMENT – Need to sell 10 bags to make a profit ✓**	(4)
2.2	**Cost Price = R650 ✓ / 1,4 ✓** **= R464, 29 ✓**	(3)
2.3.1	**Year 1: R100 000 x 1,08 = R108 000✓** **Year 2: R108 000 ✓x 1, 08 = R116 640✓** **Year 3: R116 640 x 1, 08 = R125 971 ,20✓**	(4)
2.3.2	**R100 000 x 5% ✓= R5 000✓**	(2)
2.3.3	**R95 000 + (R95 000 x 12% ✓x 4 years✓)** **= R140 000 ✓**	(3)

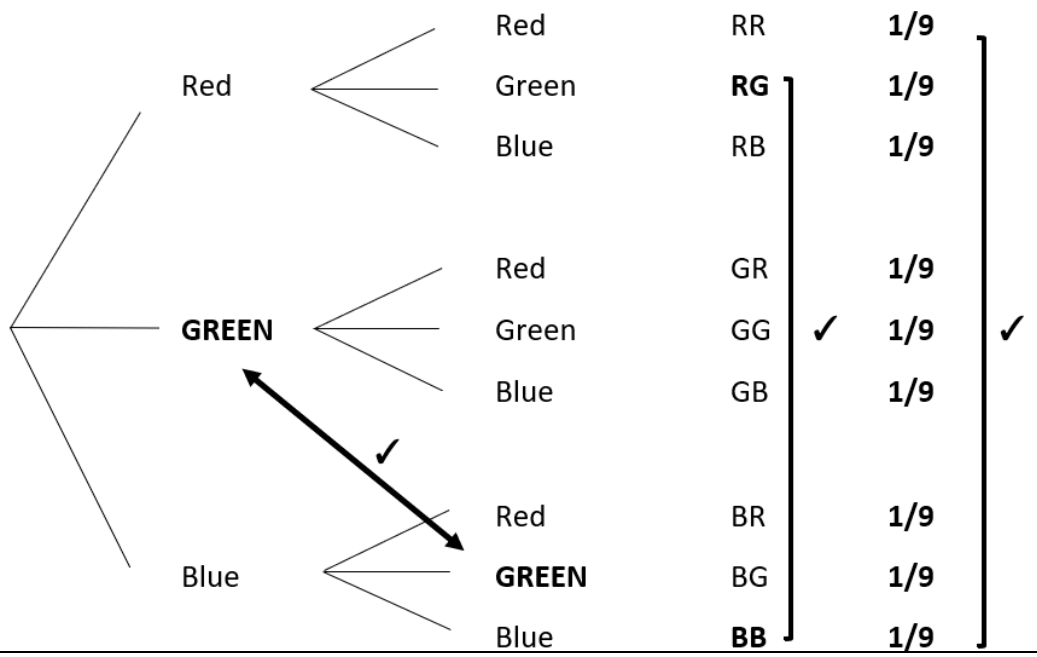
2.3.4	**Option 1: R125 975,20 / 36 months✓ = R3499,20✓**	
	Option 2: R140 000 / 48 months✓ = R2 929,17✓	
	Therefore, Option 2 is the better offer, as its cheaper monthly and a longer term to pay the money back ✓	
		(5)
2.4.1	**32% / 365 ✓=0,000876712✓**	
		(2)
2.4.2	**R250 + (0,000876712 ✓x R3 500 x 15✓)**	
	= R350 + R46,03 ✓	
	= R296,03 ✓	(4)
		[35]

QUESTION 3

3.1.1	**Gauteng ✓✓**	(2)
3.1.2	**EC : 53,9%✓ - 46,1% = 7,8%✓**	
	Limpopo: 54,3% - 45,7% = 8,6%✓	
	Limpopo has the bigger difference ✓	(4)
3.1.3	**Gauteng: 51% x 7 348 423✓ = 3 746 996 males✓**	
	KwaZulu Natal: 46,9% x 8 417 021 = 3 947 583 males✓	
	Difference: 3 947 583 – 3 746 996 ✓= 200 587 males✓	(5)
3.2.1	**P (Mpumalanga) = $\frac{2\ 800\ 711}{40\ 583\ 573}$✓**	
	= 0,069….	
	= 0,07✓	(2)
3.2.2	**Number not in the WC = 40 538 573 – 3 956 875**	
	= 36 626 698 ✓	
	P (not in WC) = $\frac{36\ 626\ 698}{40\ 583\ 573}$	
	= 0,902	
	= 0,9 ✓	(2)
3.3.1	**Mean = (95+136+151+162+151+180+124+102+158+120) / 10 ✓**	
	= 1379 / 10 ✓	
	= 137,9 ✓	(3)

3.3.2	**Median = (2,74 + 2,91) ✓ / 2 ✓**	(3)
	= 5,65 / 2	
	= 2,83m ✓	
3.3.3	**Range = 55 – 27 ✓**	(2)
	= 28 ✓	
3.3.4	**Mode = 1,91 ✓✓**	(2)
		[25]

QUESTION 4

4.1.1	**(12 000 + 1650) ✓ – (4 500 + 1 200 + 3 000 + 4 000) ✓**	
	= 950 ✓	(3)
4.1.2	**1 650 / 13 650 ✓ x 100 ✓**	
	= 12,1 % ✓	(3)
4.1.3	**Rent Expense ✓ ✓**	(2)
4.2.1		(3)
4.2.2 (a)	**3 / 9 ✓**	
	= 1 / 3 ✓	(2)
4.2.2 (b)	**0 / 9 ✓**	
	= 0 ✓	(2)
		[25]

ROUGH WORK/EXTRA SPACE

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