

## Grade12 Mathematical Literacy: Memorandum Paper 1

1.1	$R5\,000,00 \times 0,0868 = 6434$ ✓ ✓ ✓	3
1.2.1	$2,4\text{ cm} \times 75\text{ cm} = 180\text{ cm} = 1,8\text{ m}$ ✓ ✓ ✓	3
1.2.2	$14\text{ m} \times 75\text{ m} = 0,186\text{ m} = 18,6\text{ cm}$ ✓ ✓ ✓	3
1.3.1	$36$ ✓ ✓	2
1.3.2	$5\%$ ✓ ✓	2
1.3.3	$9\frac{1}{4}\text{ inches} = 2,54\text{ cm} = 23,81\text{ cm}$ ✓ ✓	3
	This is correct. ✓	3
1.4.1	Outliers ✓ ✓	2
1.4.2	About 40 players ✓ ✓	2
1.4.3	$> 25,5$ ✓ ✓	2
1.4.4	He is definitely in the top quartile. He is closer to the highest batting averages so he compares favourably with the best batsmen in the world. ✓ ✓	2
2.1.1	Accept between R330 and R355 ✓ ✓	2
2.1.2	Accept between R265 and R270 ✓ ✓	2
2.2	% change = $\frac{R329,53 - R320,65}{R320,65} = 2,7\%$ ✓ ✓ ✓ ✓	4
2.3	$0,185 = \frac{R320,65 - x}{x}$ ✓ ✓ $0,185x = R320,65 - x$ $1,185x = R320,65$ $x = R320,65 \div 1,185$ ✓ $x = R270,65 \div 1,185$ $x = R227,99$ ✓	4
3.1.1	6th April, 2009 to 4 May, 2009 ✓ ✓	2
3.1.2	R2 000 ✓ ✓	2
3.1.3	-R5 000 ✓ ✓	2
3.1.4	13 ✓ ✓	2
3.2.1	$R5\,000 - R1\,500 = R3\,500$ ✓ ✓ ✓ ✓	4
3.2.2	(a) Athene withdrew R4 000. This caused her bank balance to go from R2 000 to -R2 000. ✓ ✓ ✓ (b) Athene deposited R9 500. This caused her bank balance to go from -R4 500 to R5 000. ✓ ✓ ✓	6
4.1.1	2010 Tax year ✓ ✓	2
4.1.2	R60 086 ✓ ✓	2
4.1.3	10% ✓ ✓	2
4.2.1	R0,00 ✓ ✓	2
4.2.2	R103 ✓ ✓	2
4.2.3	Weekly deduction = 10% of R1 615,51 Weekly deduction = R161,55 ✓ ✓	2
4.2.4	Take Home = $R1\,615,51 - (R103 + R161,55)$ ✓ ✓ ✓ = R1 350,96 ✓	4
4.3.1	$R1\,615,51 = 111\%$ of original wage Original wage = $R1\,615,51 \div 1,11$ = R1 455,41 ✓ ✓ 10% of R1 455,41 = R145,54 ✓ Take Home = $R1\,455,41 - (R27,87 + R145,54)$ ✓ = R1 282,00 ✓	5
4.3.2	% change = $\frac{R1\,350,96 - R1\,282,00}{R1\,282,00} = 5,4\%$ ✓ ✓ ✓ ✓	4
4.3.3	The "take home" percentage increase is less than half of the wage increase of 11%. The reason for this is the increase in the PAYE that the custodian has to pay. Originally he/she paid R27,87 per week which is 1,91% of his/her salary. After the increase he/she pays R103 PAYE per week which is 6,38% of his/her salary. Hence the discrepancy in the "take home" increase and the wage increase. ✓ ✓ ✓ ✓	4
5.1.1	681 km ✓ ✓	2

# Maths Trial Exam Memo 2014 Paper 1

**JA Banks**



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web it all began with edmond becquerel a young physicist working in france who in 1839 observed and discovered the photovoltaic effect a process that produces a voltage or electric current when

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improvements in conversion efficiency between 1957 and 1960 hoffman electronics

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