



Province of the
EASTERN CAPE
EDUCATION

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

SEPTEMBER 2019

**MATHEMATICAL LITERACY P2
ADDENDUM**



This addendum consists of 6 pages with 5 annexures.

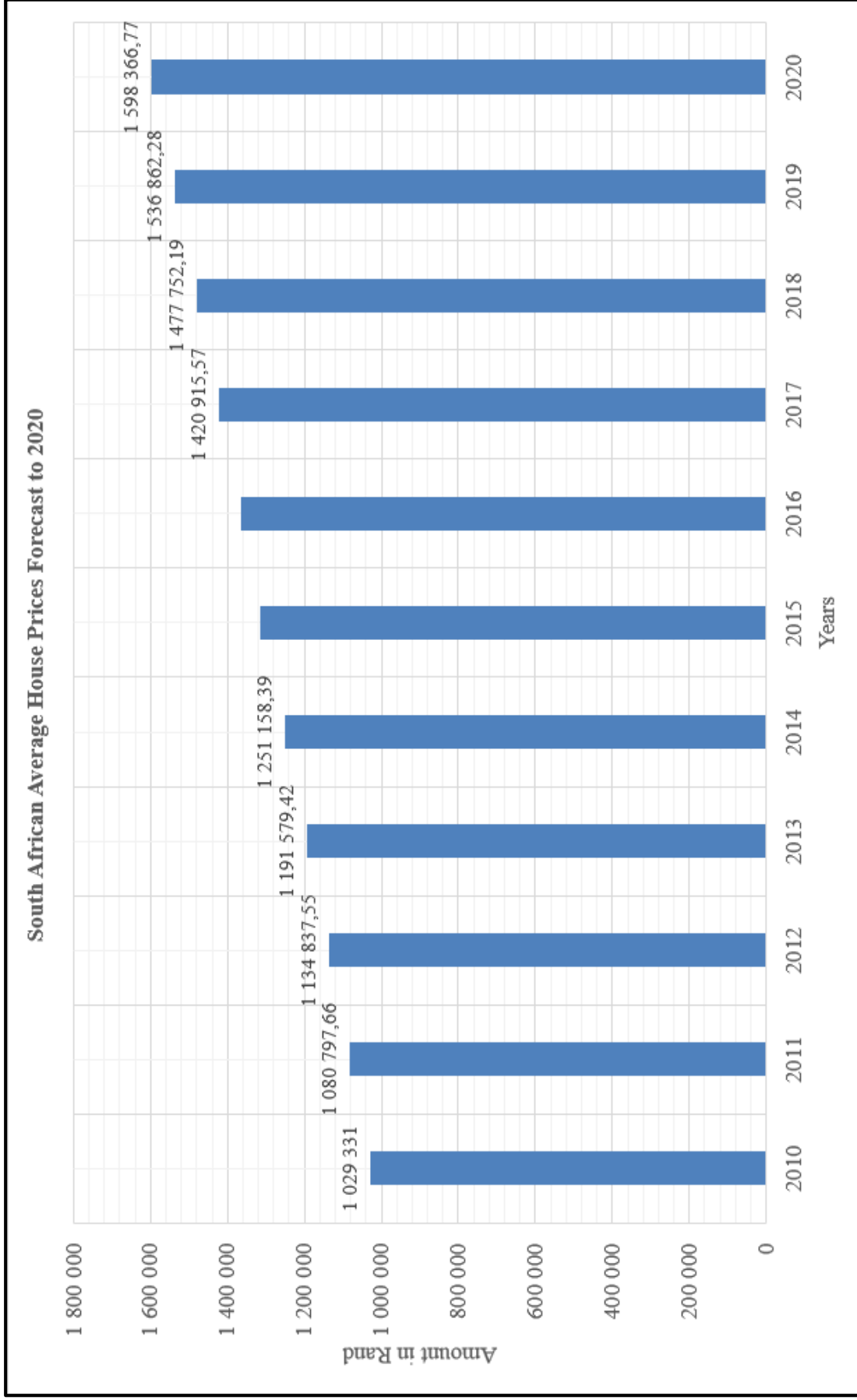
ANNEXURE A: QUESTION 1.1

TABLE 1 – Account Statement for the duration of the loan period

NOTE: (...) Some months and values have been omitted

Conditions of Loan	Loan Amount	R750 000	Interest rate (per annum)		Closing Balance
			Interest rate (per month)	Loan Period	
Month	Opening Balance	Interest	Balance with interest	Repayment	Closing Balance
1	R750 000	R6 093,75	R756 093,75	R6 442,50	R749 651,25
2	R749 651,25	R6 090,92	R755 742,17	R6 442,50	R749 299,67
3	R749 299,39	R6 088,06	...	R6 442,50	...
...
60	R722 033,45	R5 866,52	R727 899,97	R6 442,50	R721 457,47
...
120	R674 894,02	R5 483,51	R680 377,53	R6 442,50	R673 935,03
...
300	R286 424,55	R2 327,20	R288 751,75	R6 442,50	R282 309,25
...

ANNEXURE B: QUESTION 1.3



[Adapted from <https://housepricesouthafrica.wordpress.com/>]

ANNEXURE C: QUESTION 2.1

Tax Table 2018/2019

Taxable Income (R)	Rates of tax (R)
0–195 850	18% of taxable income
195 851–305 850	35 253 + 26% of taxable income above 195 850
305 851–423 300	63 853 + 31% of taxable income above 305 850
423 301–555 600	100 263 + 36% of taxable income above 423 300
555 601–708 310	147 891 + 39% of taxable income above 555 600
708 311–1 500 000	207 448 + 41% of taxable income above 708 310

Tax Rebate 2018/2019	
Primary (younger than 65)	R13 635
Secondary (65 and older)	R7 479
Tertiary (75 and older)	R2 493

Tax Thresholds	
Person	2018/2019
Younger than 65	R75 750
65 and older	R117 300
75 and older	R131 150

Medical aid credits 2018/2019 year of assessment
(1 March 2018–28 February 2019)
R310 per month for the taxpayer who paid the medical scheme contributions
R310 per month for the first dependant
R209 per month for each additional dependant(s)

[Source: <http://sars.co.za>]

ANNEXURE D: QUESTION 4.1

Q shows the material used to cut out the panels.
R shows one of the panels to be used for the hot air balloon (the shaded parts are not used).

[Source: <http://crammed-hot-air-balloon-construction-charle-s-law-balloons-646lupeanaya.png>]

ANNEXURE E: QUESTION 4.2

Hot Air Balloon
Buoyancy

The volume of all the hot air balloons is $2\,400\text{ m}^3$
The outside temperature of all the hot air balloons is 20°C .

NOTE: Buoyancy in this text refers to the ability of the hot air balloon to be lifted by hot air

[Adapted from <http://buoyancy.png>]