

## Grade 12 Mathematical Literacy: Memorandum Paper 2

- 1.1.1 Plus 94 Research ✓ ✓ 2
- 1.1.2 The newspaper is referencing its source of information ✓ ✓ 2
- 1.1.3 % of population =  $\frac{7000}{25\,181\,997}$  as a % ✓ ✓ 4
- = 0,03% ✓ ✓
- 1.2.1 Predicted % = 60% ✓
- Actual % =  $\frac{11\,630\,748}{17\,680\,729}$  as a % ✓ ✓
- = 65,9% ✓ 4
- 1.2.2 It means that the D.A. will get the most votes but will not get more than 50% of the votes. This means that they will not be completely in charge. ✓ ✓
- Actual % =  $\frac{22}{42}$  as a % ✓
- = 52,4% ✓ 4
- 1.2.3 It means that they predict that COPE will get the second highest number of votes in those particular provinces and hence the second highest number of seats. ✓ ✓
- COPE became the official opposition in only 4 of the predicted provinces namely the Eastern Cape, Free State, Limpopo and Northern Cape. In the North West Province, they share this position with the D.A. and in the Mpumalanga the D.A. is the official opposition. ✓ ✓ ✓ 3
- 1.3.1
- Number of seats won by each party
- 
- ✓ ✓ ✓ ✓ ✓ graph correct 3
- 1.3.2 COPE did not do as well as had been predicted. ✓
- The graph shows that except for the Western Cape where the predicted number of seats and the actual number of seats is the same, in all the other provinces the predicted result is more than the actual number of seats. In three of the provinces namely KwaZulu-Natal, Limpopo and Mpumalanga the predicted result was significantly more than the actual number of seats. ✓ ✓ ✓ 4
- 1.4 The predicted results anticipated that COPE would do much better than it did. They predicted that this would result in the ANC getting fewer votes than it actually did get. In the Western Cape they predicted that the ID would do much better than it did which meant that the ANC and the DA did better than was predicted. The result was that the DA did get above 50% of the votes in the Western Cape. This survey gave the impression that the rise of COPE would make a big difference to the number of votes that the ANC would get. The sample that they used to obtain their data was only 0,03% of the voting population, which is a very small sample and hence could have given a skewed opinion. The newspaper does not say in which province(s) the sample was taken from. ✓ ✓ ✓ ✓ ✓ 3
- 2.1.1 R83 900 ✓ ✓ 2
- 2.2.1 There is no deposit needed ✓ ✓ 2
- 2.2.2  $R1\,399 + R57 = R1\,456$  ✓ ✓ ✓ 3
- 2.2.3  $60 \times R1\,456 = R87\,360$  ✓ ✓ ✓ 3
- 2.2.4 R34 399 ✓ 1
- 2.2.5 Total cost =  $R87\,360 + R34\,399$
- = R121 759 ✓
- Total cost in advert = R121 753,81 ✓
- This tiny difference is almost certainly the result of rounding ✓ ✓ 4
- 2.3.1 Principal debt = R88 040 ✓
- Number of years = 5 ✓
- Interest rate = 9,5% ✓
- Repayment factor = 21,00 ✓
- Monthly installment =  $\frac{88\,040}{1\,000} \times 21,00$  ✓ 3

# Mathematical Literacy Paper 2 1060e Grade12 2015

**Xiaolong Qi**



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