# Bergvliet High School

GRADE 10
Mathematical Literacy
November Examination
Paper 2
2024

**MARKS: 75** **TIME: 1 ½ HOURS**
**EXAMINER: MR P FURSTENBURG** **MODERATOR: MR K GWAVAVA**

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

| QUESTION | MARK | LEARNERS MARK |
|---|---|---|
| **Q 1** | **11** | |
| **Q 2** | **20** | |
| **Q 3** | **17** | |
| **Q 4** | **11** | |
| **Q 5** | **16** | |
| **Total** | **75** | **/ 75** |

**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 | **Cairo ✓✓** | (2) |
| 1.1.2 | **73 – 49 ✓** | |
| | **= 24 ✓** | (2) |
| 1.1.3 | **$^{o}C = (40^{o}F – 32^{o}) ÷ 1,8$ ✓** | |
| | **$= 6,67^{o}C$ ✓** | |
| | **$= 7^{o}C$ ✓** | (3) |
| 1.2.1 | **80 000 ✓✓** | |
| | | (2) |
| 1.2.2 | **110 000 ✓✓** | |
| | | (2) |
| 1.3.1 | **For every ONE UNIT on the map, represents FIFTY UNITS in** | |
| | **Reality ✓✓** | |
| | | (2) |
| 1.3.2 | **5m x 100 ✓** | |
| | **= 500cm ✓** | |
| | | (2) |
| | | **[15]** |

**QUESTION 2**

| | | |
|---|---|---|
| 2.1.1 | **Flour: 4oz x 28,3499 ✓** | |
| | **= 113,3836g ✓** | |
| | **Milk: 600ml ÷ 2 ✓** | |
| | **300ml ✓** | (4) |
| 2.1.2 | **10 ÷ 6✓ x 4oz ✓** | |
| | **= 6,67oz ✓** | (3) |
| 2.2.1 | **Area = 6m x 3,5m ✓** | |
| | **= 21m$^2$ ✓** | (2) |
| 2.2.2 | **21m$^2$ x 12,5% ✓** | |
| | **= 2,625m$^2$ ✓ = 2,63m$^2$✓** | (3) |
| 2.3.1 | **15cm x 15cm ✓** | |
| | **= 225cm$^2$ ✓** | |
| | **225cm$^2$ ÷ 10 000 ✓** | |
| | **= 0,0225m$^2$ ✓** | |
| | | (4) |
| 2.3.2 | **21m$^2$ – 2,63m$^2$ ✓** | |
| | **= 18,37m$^2$ ✓** | |
| | **18,37m$^2$ ÷ 0,0225m$^2$ ✓** | |
| | **= 816 ,44 tiles ✓** | (4) |
| | | **[20]** |

**QUESTION 3**

| | | |
|---|---|---|
| 3.1.1 | **South East (SE) ✓✓** | (2) |
| 3.1.2 | **6 ✓✓** | (2) |
| 3.2 | **Cape Town to Bloemfontein = 102mm ✓** | |
| | **Scale: 300km = 31mm ✓** | |
| | **102mm ÷ 31mm x 300km ✓** | |
| | **= 987,1km ✓** | (4) |
| 3.3 | **Driving on a road will be a longer distance than travelling in a straight line (As the Crow flies) ✓✓** | |
| | **ANY SUITABLE ANSWER** | |
| | | (2) |
| 3.4.1 | **KwaZulu Natal** | (2) |
| 3.4.2 | **17 010 ✓: 372 889 ✓** | |
| | **1 : 21,92 ✓** | |
| | | (3) |
| 3.4.3 | **FOUR MILLION, EIGHT HUNDRED AND THIRTY NINE** | |
| | **THOUSAND, EIGHT HUNDRED ✓✓** | |
| | | (2) |
| | | **[17]** |

**QUESTION 4**

| | | |
|---|---|---|
| 4.1.1 | **8 Doors ✓✓** | (2) |
| 4.1.2 | **6 Windows ✓✓** | (2) |
| 4.1.3 | **Breadth = 330 ÷ 100 = 3,3m✓** | |
| | **13,2m$^2$ = 4m x 3,3m✓** | |
| | | (2) |
| 4.2.1 | **6,2cm ÷ 2 = 3,1cm ✓** | |
| | **Area = 3,142 (3,1cm)$^2$ ✓** | |
| | **= 3,142 (9,61cm)** | |
| | **= 30,19462cm$^2$ ✓** | |
| | | (3) |
| 4.3 | **4 / 52 ✓✓** | |
| | | (2) |
| | | **[11]** |

**QUESTION 5**

| | | |
|---|---|---|
| 5.1.1 | **Volume = 3,142 (3cm)$^2$ x (2,5cm) ✓** | |
| | **= 3,142 x 22,5cm** | |
| | **= 70,695cm$^3$ ✓** | (2) |
| 5.1.2 | **TSA = 2(3,142)(3cm)$^2$ ✓ + 2(3,142)(3cm)(2,5cm) ✓** | |
| | **= 56,556cm$^2$ + 47,13cm$^2$** | |
| | **= 103,686cm$^2$ ✓** | |
| | | |
| | | (3) |
| 5.2.1 | **Histogram ✓✓** | (2) |
| 5.2.2 (a) | **5 ✓✓** | (2) |
| 5.2.2 (b) | **90 / 160 ✓ x 100 ✓** | |
| | **= 56,25% ✓** | |
| | | (3) |
| | | **[16]** |

# ROUGH WORK/EXTRA SPACE