

# GRADE 10

# MATHEMATICS

**MARCH TEST**

**MEMO**

**2018**

**MARKS: 50**

**This memo consists of 4 pages**

**QUESTION 1**

|  |  |  |
| --- | --- | --- |
| 1.1 | Let *x*  . . . . . . . . (ii)  99*x =*28  ∴ *x =* | ✓ equation (i) and (ii)  ✓ 99*x =*28  ✓ answer (3) |
| 1.2 | lies between 7 and 8 | ✓  ✓  ✓ conclusion (3) |
| 1.3.1 | ) | ✓ (1) |
| 1.3.2 |  | ✓ common factor  ✓difference of 2 squares  ✓ answer (3) |
| 1.4.1 |  | ✓ factors (numerator & denominator)  ✓ and multiplication sign  ✓ answer (3) |
| 1.4.2 |  | ✓ simplification  ✓ common factor  ✓ answer (3) |
| 1.5 | =  = | ✓ other factor  ✓ product  ✓ answer (3) |
| **[19]** | | |

**QUESTION 2**

|  |  |  |
| --- | --- | --- |
| 2.1 |  | ✓ answer (1) |
| 2.2.1 |  | ✓ answer (1) |
| 2.2.2 | or | ✓ standard form  ✓ factors  ✓ both answers (3) |
| 2.2.3 |  | ✓ equating exponents  ✓ answer (2) |
| 2.2.4 |  | ✓    ✓ answer  (2) |
| **2.3** | (i)  Substitute into equation (i) | ✓ equation  ✓ correct substitution  ✓ *y* - answer  ✓ *x* - answer (4) |
| 2.4 | but | ✓  ✓  ✓ (3) |
| 2.5 | **,** | ✓ end points  ✓ notation (2) |
| 2.6 |  | ✓both equations  ✓simplification  ✓answer (3) |

**[21]**

**QUESTION 3**

|  |  |  |
| --- | --- | --- |
| 3.1.1 |  | ✓ ✓ answer (2) |
| 3.1.2 |  | ✓ substitution  ✓ value of c  ✓ answer (3) |
| 3.1.3 | First term negative, look for a zero term  term 11 is the first negative term, and the value of the term is.  OR    Term number 11, the value of the term is | ✓ the value of n  ✓ answer    ✓ pattern  ✓ answer (2) |
| 3.2.1 | 14 pieces | ✓ answer (1) |
| 3.2.2 | No. the formula does not take the size of an apple into account. | ✓ no  ✓ explanation (2) |
| **[10]** | | |

**TOTAL: 50**