

## **GENERAL EDUCATION AND TRAINING CERTIFICATE**

## **NQF LEVEL 1**

## **AET LEVEL 4 SITE-BASED ASSESSMENT**

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| **LEARNING AREA** | **:** | **MATHEMATICS AND MATHEMATICAL SCIENCES** |
| **CODE** | **:** | **MMSC4** |
| **TOOL** | **:** | **WORKSHEET** |
| **TIME** | **:** | **2 HOURS** |
| **MARKS** | **:** | **50** |

**This assessment tool consists of 4 pages.**

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| |  | | --- | | **Name of Centre:** |  |  | | --- | | **Name of Learner:** | |  |  |

**QUESTION1**

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| --- | --- | --- | --- | --- |
| 1.1 | 1.1.1 | C. Q ÷ 10 🗸 | Correct answer | (1) |
|  | 1.1.2 | A. Q – 6🗸 | Correct answer | (1) |
|  | 1.1.3 | C. Q + 13 🗸 | Correct answer | (1) |
|  | 1.1.4 | B. Q × 8🗸 | Correct answer | (1) |
|  | 1.1.5 | A. Q - 13 🗸 | Correct answer | (1) |

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| 1.2 | 1.2.1 | 47; 53; 60; 67; 74; 81🗸🗸 | Correct pattern  Correct sixth value | (2) |
|  | 1.2.2 | 3; 6; 9; 12; 15🗸🗸 | Correct pattern  Correct fifth value | (2) |
|  | 1.2.3 | 23; 21; 19; 17; 15; 13🗸🗸 | Correct pattern  Correct sixth value | (2) |
|  | 1.2.4 | 3; 6; 12; 24🗸🗸 | Correct pattern  Correct fourth value | (2) |

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| 1.3 | 1.3.1 | C. 82 , 91🗸 | Correct values | (1) |
|  | 1.3.2 | B. 53 , 45🗸 | Correct values | (1) |
|  | 1.3.3 | C. 69 , 78🗸 | Correct values | (1) |
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| 1.4 | 1.4.1 | Rule= Subtract 9 OR Difference of 9 between the terms 🗸 | Correct rule | (1) |
|  | 1.4.2 | Rule= Divide by 5 🗸 | Correct rule | (1) |
|  | 1.4.3 | Rule= Add 6 OR Increase by 6 🗸 | Correct rule | (1) |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 1.5 | 1.5.1 | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |   🗸 For 4 coloured blockscorrect  🗸 For ALL 7 coloured blockscorrect |  | (2) |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | 1.5.2 | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 89 | 99 | 100 |   🗸 For correctly coloured block of 26  🗸 For correctly coloured block of 50  🗸 For correctly coloured block of 82 | |  | (3) |
|  | 1.5.3 | 2= +1; 5= +1; 10=; 17=🗸  🗸🗸 | Correct pattern | | (3) |

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|  | 1.5.4 | 🗸  🗸  🗸 | Correct substitution  Correct simplification  Correct answer | (3)  **[30]** |

**QUESTION 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 2.1 | 2.1.1 |  | Correct value | | (1) |
|  | 2.1.2 | False🗸 | Correct answer | | (1) |
|  | 2.1.3 | Identity🗸 | Correct answer | | (1) |
|  | 2.1.4 |  | Correct values of 0 and 2 | | (2) |
|  | 2.1.5 |  | Correct values of -4 and 2 | | (2) |
| 2.2 | 2.2.1 | [ Subtract 4x; add 3 and 7 on both sides]🗸  [Add like terms]🗸  🗸 | Correct transposing  Collecting like terms  Correct answer | | (3) |
|  | 2.2.2 | 🗸  🗸  🗸  🗸 | Correct brackets  Correct transposing  Correct simplification  Correct answer | | (4) |
| 2.3 | Answer:🗸🗸 | | | Correct 3h+15  Correct 36 | (2) |

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| 2.4 | 2.4.1 | B. 🗸 | Correct ALL values | (1) |
|  | 2.4.2 | D. 🗸 | Correct ALL values | (1) |

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| 2.5 | Plot , on the number line.  🗸🗸 | Correct ring over 2  Correct solid dot over 3 | (2)  **[20]** |

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| **TOTAL:** |  | **50** |