

## **GENERAL EDUCATION AND TRAINING CERTIFICATE**

## **NQF LEVEL 1**

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

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

**This assessment tool consists of 5 pages.**

|  |  |  |
| --- | --- | --- |
| **INSTRUCTIONS AND INFORMATION** |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Answer ALL the questions on this WORKSHEET and hand in the completed task. |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 2. | Write the CENTRE and your NAME in the space provided. |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 3. | Calculators may be used unless otherwise stated. |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 4. | Show ALL calculations. |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 5. | Write legible and present your work clearly. |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 6. | This worksheet is covering US 7453 |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1.1.1 | Copy and complete the table below   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Number of seats | 1 | 2 | 3 | 4 | 5 | | Number of cubes | **11**✓ | **14**✓ | 17 | **20**✓ | **23**✓ | |  | (4) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1.1.2 | Number of seats, multiply by 3 (common difference), we add 8.✓✓ |  | (2) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1.1.3 | In an equation is the common difference, Calculate:  ✓  ✓ |  | (2) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1.1.4 | ✓ CA |  | (1) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1.1.5 | ✓  ✓ |  | (3) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1.1.6 | ✓  ✓  ✓  Seat number will have cubes. |  | (3) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1.1.7 | ✓  ✓  ✓  rectangular prisms can be used to make seater couch. |  | (3)  **[18]** |

|  |  |  |
| --- | --- | --- |
| **ACTIVITY 2** |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 2.1.1 | 🗸🗸      🗸🗸 |  | (4) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 2.1.2 | **🗸🗸** |  | (2) |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 2.2.1-2.2.3 | | C  **y**  8  7  9    6  A  B  5    **FIGURE 1**  3  2  4\\  D  C    A  E  F  1    F  B    -2  8  **x**  1  2  3  4  6  9  8  7  -3  7  6  5  -8  -7  -6  -5  -4  -1  5  0  -4  -5  -2  -1  -3  -7  -6  -5  **FIGURE 3**  D  ✓✓✓✓  D  F’  E  E  **FIGURE 2**  ✓✓✓✓  (8)    4 Marks for translation  4 Marks for rotation | | | |
|  | 2.3.4 | | Write down the coordinates of the image of this figure.  ✓  ✓  ✓  ✓  ✓ |  | (6)  **[20]** |

|  |  |  |
| --- | --- | --- |
| **ACTIVITY 3** |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 3.1.1 | ✓  ✓  ✓  ✓✓ |  | (5) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 3.1.2 | ✓  ✓  ✓  ✓✓ |  | (5) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 3.1.3 | Time travelled will be shorter✓✓ |  | (2)  **[12]** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | TOTAL |  | **50** |