

## **GENERAL EDUCATION AND TRAINING CERTIFICATE**

## **NQF LEVEL 1**

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

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| **LEARNING AREA** | **:** | **MATHEMATICAL LITERACY** |
| **CODE** | **:** | **MLMS4** |
| **TOOL** | **:** | **PROJECT** |
| **TIME** | **:** | **FIVE DAYS (ONE HOUR/DAY)** |
| **MARKS** | **:** | **50** |

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

|  |  |  |
| --- | --- | --- |
| **ACTIVITY 1** | **Explanation** | **Marks** |

|  |  |  |  |
| --- | --- | --- | --- |
| 1.1.1 | denominator✓ ; numerator✓ | 1 A Answer | (2) |

|  |  |  |  |
| --- | --- | --- | --- |
| 1.1.2 | numerator✓ ; denominator✓ | 1 A Answer | (2) |

|  |  |  |  |
| --- | --- | --- | --- |
| 1.1.3 | numerator✓ ; denominator✓ | 1 A Answer | (2) |

|  |  |  |  |
| --- | --- | --- | --- |
| 1.2.1 | ✓  =✓  =✓ | 1 S Answer  1 A Calculation  1 CA Answer  Answer only :  Full Marks | (3) |

|  |  |  |  |
| --- | --- | --- | --- |
| 1.2.2 | ✓  = ✓✓ | 1 S Answer  2 CA Answer  Answer only :  Full Marks | (3) **[12]** |

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

✓

✓

|  |  |  |  |
| --- | --- | --- | --- |
| 2.1.1 |  | 1 A Answer  1 CA Answer | (2) |

✓

✓

|  |  |  |  |
| --- | --- | --- | --- |
| 2.1.2 |  | 1 A Answer  1 CA Answer | (2) |

✓

|  |  |  |  |
| --- | --- | --- | --- |
| 2.1.3 | ✓ | 1 A Answer  1 CA Answer | (2) |

|  |  |  |  |
| --- | --- | --- | --- |
| 2.2.1 | ✓  ✓  fig26Description: http://www.cehd.umn.edu/ci/rationalnumberproject/images/92_2/fig26.gif  ✓ | 2 M for correct diagrams  1 J Equivalent fraction | (3) |

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| --- | --- | --- | --- |
| Question | **Solution** | **Explanation** | **Marks** |

|  |  |  |  |
| --- | --- | --- | --- |
| 2.2.2 | [Description: http://www.mathgoodies.com/lessons/fractions/circles/circle_one_fifth_green.gif](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.mathgoodies.com/lessons/fractions/&ei=7EwmVcfjEsGvUdjZgcgC&psig=AFQjCNETzRPoUmei0mBR75OSCuobDDPDmQ&ust=1428659795837724) [Description: http://www.mathgoodies.com/lessons/fractions/circles/circle_one_fifth_green.gif](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.mathgoodies.com/lessons/fractions/&ei=7EwmVcfjEsGvUdjZgcgC&psig=AFQjCNETzRPoUmei0mBR75OSCuobDDPDmQ&ust=1428659795837724)  ✓  ✓        ✓ | 2 M for correct diagrams  1 J Equivalent fraction | (3) **[12]** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 3.1 | 3.1.1 | <✓ | 1 A Answer | (1) |
|  | 3.1.2 | =✓ | 1 A Answer | (1) |
|  | 3.1.3 | >✓ | 1 A Answer | (1) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 3.2 | 3.2.1 | ✓  ✓          [Description: http://www.homeschoolmath.net/teaching/f/images/4-4-empty0square.png](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.homeschoolmath.net/teaching/f/understanding_fractions.php&ei=Il0mVbfMIYLwULaXgegO&psig=AFQjCNEGsIlYLrUiQHn7W59rMBtF_QiJ8Q&ust=1428663961418122) [Description: http://mathcentral.uregina.ca/QQ/database/QQ.09.06/h/jemina1.1.gif](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://mathcentral.uregina.ca/QQ/database/QQ.09.06/h/jemina1.html&ei=0l0mVZfyOYrjU9KthKAB&psig=AFQjCNGotd2l81VtIYjo5E6XZM1fV10w_Q&ust=1428664115593336)          > ✓ | 2 M for correct diagrams  1 J Equivalent fraction | (3) |
| 3.2 | 3.2.2 | [Description: http://www.helpingwithmath.com/printables/images_fractions/Sixth03.png](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.helpingwithmath.com/printables/tables_charts/tab0401fractions_sixths01.htm&ei=-mQmVfzxGcGsUt6tg7gB&psig=AFQjCNHrgwa1gPbJwAU2lC9_heA9bKKorg&ust=1428665963113866) [Description: https://zerosumruler.files.wordpress.com/2012/11/half2.jpg](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=https://zerosumruler.wordpress.com/2013/11/04/dividing-fractions-with-pictures-2/&ei=RGUmVa2_CoWwUY7WgNAO&psig=AFQjCNHrgwa1gPbJwAU2lC9_heA9bKKorg&ust=1428665963113866)  = ✓  ✓ | ✓  2 M for correct diagrams  1 J Equivalent fraction | (3)  **[9]** |

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| **ACTIVITY 4** |  |  |

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| --- | --- | --- | --- |
| 4.1.1 | =✓  = ✓ | 1 A for Calculation  1 CA Answer  Answer only :  Full Marks | (2) |
| 4.1.2 | =✓  =  = ✓ | 1 S Simplification of conversions  1 CA answer  Answer only :  Full Marks | (2) |
| 4.1.3 | =✓  =  =✓ | 1 A for calculation  1 CA Answer  Answer only :  Full Marks | (2) |

✓

✓

|  |  |  |  |
| --- | --- | --- | --- |
| 4.2.1 | ✓    +  = | 1 M for correct diagram | (3) |

|  |  |  |  |
| --- | --- | --- | --- |
| 4.2.2 | ✓  ✓  ✓  ̶  = | 1 M for correct diagram | (3)  **[12]** |

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| **ACTIVITY 5** |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 5.1 | ✓  =  =✓ | 1 S Simplification of conversions  1 CA answer  Answer only :  Full Marks | (2) |

|  |  |  |  |
| --- | --- | --- | --- |
| 5.2 | Ann:= Vuyo:=  =✓ =✓  Ann got the better score. ✓ | 2 A Answer  1 J answer | (3)  **[5]** |

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