**QQQ – Year 8 Indices**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| 1 | Simplify  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 2 | Simplify  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 3 | Evaluate  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 4 | Simplify  \_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 5 | Simplify  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 6 | Simplify  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 7 | 1. Solve    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. Simplify    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 8 | Given that and , express the following in terms of and/or :   1. \_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_ |  |

Score \_\_\_\_\_\_/8 Award \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**QQQ – Year 8 Indices - ANSWERS**

|  |  |  |
| --- | --- | --- |
| 1 | Simplify |  |
| 2 | Simplify  **or** |  |
| 3 | Evaluate  **(do NOT accept )** |  |
| 4 | Simplify |  |
| 5 | Simplify |  |
| 6 | Simplify |  |
| 7 | 1. Solve 2. Simplify |  |
| 8 | Given that and , express the following in terms of and/or : |  |

Platinum: 8, Gold 7+, Silver 6+, Bronze 5+