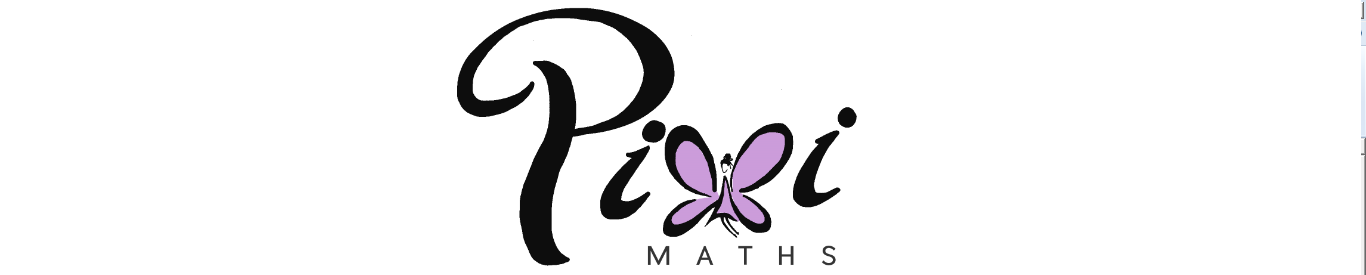
**Integers, Powers and Roots (H)**

Post-Intervention Assessment

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Question** | **Objective** | **RAG** |
| 1 | Apply laws of indices |  |
| 2 | Write numbers in standard form |  |
| 3 | Calculate in standard form |  |
| 4 | Simplify surds |  |
| 5 | Expand brackets involving surds |  |
| 6 | Rationalise denominators |  |

**1.** Work out

(i) 2º (ii) 2-4 (iii) 82/3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** (a) Write 60 000 in standard form.

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(b) Write 4 x 10–3 as an ordinary number.

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**3.** Work out the value of 4 x 10–3 x 60 000

Give your answer in standard form.

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**4.** Write √48 in the form *k*√3 , where *k* is an integer.

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**5.** Expand and simplify (√2 - √5)(√2 + √5)

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**6.** Rationalise the denominator of \_4\_

√8

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[Glue here]