|  |  |  |  |
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| Year  8 | | *Indices* | Non Calculator  Section |
| **Skills and Knowledge Assessed:**   * Investigate index notation and represent whole numbers as products of powers of prime numbers (ACMNA149) * Use index notation with numbers to establish the index laws with positive integral indices and the zero index (ACMNA182) | | | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Answer all questions in the spaces provided on this test paper by:**  ***Writing the answer in the box provided.***  **or**  ***Shading in the bubble for the correct answer from the four choices provided.***  **Show any working out on the test paper.** | | | |
|  |  | | |
|  |  | | |
|  | Write  in index notation. | | |
|  |  | | |
|  |  | | |
|  | Write the answer to  in index notation | | |
|  |  | | |
|  | = ? | | |
|  |  | | |
|  | Write the answer to  in index notation | | |
|  |  | | |
|  | = ? | | |
|  |  | | |
|  | Write the answer to  in index notation and give its numerical value.  **=** | | |
|  |  | | |
|  | = ? | | |
|  |  | | |
|  | = ? | | |
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| Year  8 | | *Indices* | Calculator Allowed  Short Answer  Section |
|  | | | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Answer all questions in the spaces provided on this test paper by:**  ***Writing the answer in the box provided.***  **or**  ***Shading in the bubble for the correct answer from the four choices provided.***  **Show any working out on the test paper. Calculators are allowed.** | | | |
|  |  | | |
|  | Evaluate . | | |
|  |  | | |
|  | = ? | | |
|  |  | | |
|  | Write the answer to  in index notation and give its numerical value.  **=** | | |
|  |  | | |
|  | = ? | | |
|  |  | | |
|  | Evaluate . | | |
|  | Simplify | | |
|  | = ? | | |
|  |  | | |
|  | = ? | | |
|  |  | | |
|  | = ? | | |
|  |  | | |
|  | Simplify | | |
|  |  | | |
|  | Simplify | | |

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| Year  8 | *Indices* |

ANSWERS

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| Non Calculator Section |

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| Calculator Allowed Section |

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