**Year 9 Foundation: Assessment 2 Revision HW (Non-Calculator) Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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|  | **Topic 5: Perimeter and Area**  |   |
| 1. | Find the perimeter of this shape: ………………………………………………………… cm8.3 cm5.2 cm6.8 cm | (2)  |
| 2. | Find the area of each shape: 6 cm5 cm4 cm  8 cm 8 cm  …………………………………… cm² …………………………………… cm²  | (2) |
| 3. | Find the area of this triangle: 4 cm 7 cm …………………………………… cm²  |  (2) |
| 4. | Field A is a rectangle with sides of 30 m and 70 mField B is a square with the same **perimeter** as Field A. What is the length of each side on field B?You **must** show your working.   ……………………………… cm | (2) |
| 5. |

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| Find the **area** of this shape. Show all of your working. 10 cm 3 cm 8cm 6 cmArea = ……………………… cm2 |

 |  (2) |

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|  | **Topic 6: Ratio and Proportion** | Mark |
| 1. | Write the ratio of shaded to unshaded circles🌕🌕●●●🌕🌕●●● …………………………… | (1) |
| 2. | Write the ratio 15 : 20 in its simplest form…………………………… | (1) |
| 3. | There are 12 girls and 20 boys in a class.Write the ratio of the number of girls to the number of boys.Give your ratio in its simplest form.…………………………… | (2) |
| 4. | Share £35 between Paul and Fred in the ratio 2 : 3Paul = £ ……………… Fred = £ ……………… | (2) |
| 5. | A recipe for cottage pie for 4 people uses 800g of potato.How much potato would you need to make a pie for 8 people? …………………… gHow much potato would you need to make a pie for 6 people? …………………… g |  (2) |
| 6. | If 6 books cost £24, how much does 1 book cost? £ ………………How much would 5 books cost? £ ……………… | (2) |

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|  | **Topic 7: Sequences** | Mark |
| 1. | Write down the rule to get to the next term and fill in the missing terms2, 5, 8, ……, ……, …… Rule: ……… | (2) |
| 2. | Write down the rule to get to the next term and fill in the missing terms4, 8, 16, ……, ……, …… Rule: ……… | (2) |
| 3. | Here are some patterns made from sticks. a) Complete the table.

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| --- | --- | --- | --- | --- | --- |
| Pattern number | 1 | 2 | 3 | 4 | 5 |
| Number of sticks | 3 | 5 |  |  |  |

b) How many sticks make Pattern number 15?........................................................... |  (2) |
| 4. | Find the nth term of this sequence:5, 8, 11, 14, 17, ……......................................................... | (2) |
| 5. | Write down the first three terms of the sequence 3n + 1 ………… , ………… , …………  | (2) |