**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:  ………………………………………………………… cm  8.3 cm  5.2 cm  6.8 cm | (2) |
| 2. | Find the area of each shape:  6 cm  5 cm  4 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 m  Field 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. | |  | | --- | | Find the **area** of this shape. Show all of your working.  10 cm      3 cm    8cm    6 cm  Area = ……………………… 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 : 3  Paul = £ ……………… 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? …………………… g  How 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 terms  2, 5, 8, ……, ……, …… Rule: ……… | (2) |
| 2. | Write down the rule to get to the next term and fill in the missing terms  4, 8, 16, ……, ……, …… Rule: ……… | (2) |
| 3. | Here are some patterns made from sticks.    a) Complete the table.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 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) |