**Year 7 Foundation: Assessment 2 Revision H/W (Non-Calculator) Name \_\_\_\_\_\_\_\_\_\_\_\_\_**

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|  | **Topic 5: Geometry and Measures**  | Mark |
| 1. | Convert these measures:1. 2 m = ………… cm (c) 460 cm = ………… m
2. 50 mm = ………… cm (d) 11.4 cm = ………… mm
 | 4 |
| 2. | Work out the perimeter of this rectangle: 7cm  4cm ………………… cm  | 1 |
| 3. | Find the area and perimeter of this shape made of cm squares:

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Area = …………… cm2 Perimeter = …………… cm | 2 |
| 4. | Here is a rectangle. It has an area of 24 cm2. Find its height.…………… cm 6 cm | 1 |
| 5. | Work out the area of this triangle: 5cm 6cm ………………… cm2  | 2 |
|  | **Topic 6: Ratio, proportion and rates of change** | Mark |
| 1. | Shade the following shapes in the ratio 1:4 unshaded: shaded. | 1 |
| 2. | Write down the ratio of circles to triangles in its simplest form: ……………………………… | 2 |
| 3. | Write these ratios in their simplest form:1. 10 : 12 = …………………
2. 18 : 15 = …………………
 | 2 |
| 4. |  Spaghetti Bolognese Complete the ingredients  For **4** people to make recipe for **8** people:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Beef | 300g |  | Beef |  |
| Tinned tomatoes | 400g |  | Tinned tomatoes |  |
| Pasta | 500g |  | Pasta |  |
| Stock | 150ml |  | Stock |  |
| Oregano | 3g |  | Oregano |  |

 | 3 |
| 5. | 5 sweets cost 35p.1. How much did 1 sweet cost? …………… p
2. How much will 3 sweets cost? …………… p
 | 2 |

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|  | **Topic 7: Sequences**  | Mark |
| 1. | Find the missing numbers in each sequence:1. 4, 7, ………, 13, 16
2. 2, 7, 12, 17, ………
3. 1, 8, ………, 22, 29
4. 43, 40, 37, ………, 31
 | 4 |
| 2. | Find the rule for each of these sequences:1. 2, 4, 8, 16, 32, … Rule: …………………………
2. 1000, 200, 40, 8, … Rule: …………………………
 | 2 |
| 3. | Here is a pattern. (a) Now draw the 4th pattern: |  |
|  | (b) Complete the table for the above pattern:

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

(c) How much dots will be in pattern number 10? …………………… | 4 |

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|  | **Topic 8: Probability**  | Mark |
| 1. | Use the words below to describe the following probabilities:**impossible likely certain unlikely certain**1. The next baby born will be a girl ………………………………
2. I will drink something this month ………………………………
3. It will rain at some point next week ………………………………
 | 3 |
| 2. | Mark with an arrow and a letter, the following:1. The probability of throwing a 10 on a normal dice. Label A
2. The probability of throwing an even number on a dice Label B
3. The probability of throwing a number more than 1 Label C
 | 3 |
| 3. | The letters of the word MILLENNIUM are placed in a bag.A letter is picked out at random. What is the probability of picking out:1. an E …………………
2. an I …………………
3. an M or N …………………
 | 3 |