**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:   |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |   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 |