**Year 9 Core Standard: Assessment 2 Revision Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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|  | Topic 5: Perimeter and Area | Mark |
| 1. | Find the area of the parallelogram and the triangle.Area parallelogram Area triangle =  ………………………cm2  ……………………….cm2 |  (4) |
| 2. | Find the area of the trapezium.  Area = ……………………………………………. | (2) |
| 3. | a) The perimeter of the rectangle is 22cm. Fill in the missing lengths and area.b) What is the total area of the shape? Area = ……………………….  | (3)(1) |
|  |  Total | (10) |

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|  | Topic 6: Ratio and Proportion | Mark |
| 1. | a) Write the ratio 15 : 20 in its simplest form. ……………….b) Bricks are made by mixing cement and water in the ratio 3 : 4  A builder uses 12 litres of cement.  How much water does he need?  ………………  | (1)(2) |
| 2. | Assim and Julie share £120 in the ratio 3 : 5How much money does each receive? Assim £…..…….. Julie £ ………… | (2) |
| 3. | Here are the ingredients to make a pasta bake for 8 peoplePasta 200 gTomatoes 300 gGarlic 20 gSausage 150 g1. On Saturday Alison wants to make a pasta bake for 12 people.

Work out how much of each ingredient she needs.   Pasta ………….. g Tomatoes ……………. g Garlic ……………. g Sausage .………….. g1. The next Saturday Alison makes a pasta bake and uses 200 g sausage.

How many people was the pasta bake for? …………………………. | (4)(1) |
|  | Total | (10) |

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|  | Topic 7: Sequences | Mark |
| 1. | Here is a patternComplete the table of results

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

 How many squares are needed for the 10th pattern ? ……………..How many squares are needed for the 20th pattern ? ………………Which pattern will have 43 squares? ……………..Complete the word formulaNumber of squares = ……………..  **X**  Pattern Number  **-** ………………..  |  (3)(2) |
| 2. | Here is a sequence 9 , 13 , 17 , 21 , 25, …………………………..1. Find the rule for the Nth term of the sequence ……………………………..
2. Calculate the 20th term in this sequence ………………………………
3. Mark thinks that 117 is in the sequence.

 Is Mark correct? ………………………… Give a reason for your answer ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………. | (1)(1)(1) |
| 3. | Find the nth term for the following sequence 35 , 32 , 29 , 26, 23, ……….  ……………………………………….. | (2) |
|  |  Total | (10) |