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

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|  |  Geometry & Measures | Mark |
| 1. | Calculate the area of the trapeziumtrap5  Answer ……………………………… | (2) |
| 2. | Calculate the circumference of the circle.8cmAnswer ………………………………  | (2) |
| 3. | Calculate the area of the circle.20cmAnswer ………………………………  | (2) |
| 4. | The diagram shows a shape.Work out the area of the shape.…………………………… cm2 | (4) |
| 5. | Find the value of the shaded area in each diagram.a)…………………………… cm2b) …………………………… cm2 | (2)(2) |

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|  | Topic 6: Ratio Proportion & Rates of change | Mark |
| 1. | Pheobe, Polly and Andy share £270.Pheobe gets three times as much as Andy who gets twice as much as Polly.Work out how much each getsPheobe ………………….. Polly ………………………… Andy……………………………   | (2) |
| 2. | At school the ratio of boys to girls is 11 : 9There are 124 more boys than girls. Work out the total number of students………………………………  |  (2) |
| 3. | In a science test, the numbers of questions on physics, chemistry and biology are in the ratio 4 : 6 : 2 What fraction of the questions are on chemistry?……………………………… | (2) |
| 4. | Asif is going on holiday to Turkey. The exchange rate is £1 = 3.5601 lira. Asif changes £550 to lira. a) Work out how many lira he should get. Give your answer to the nearest lira.  .............. liraAsif sees a pair of shoes in Turkey. The shoes cost 210 lira. Asif does not have a calculator. He uses £2 = 7 lira to work out the approximate cost of the shoes in pounds. b) Use £2 = 7 lira to show that the approximate cost of the shoes is £60 c) Is using £2 = 7 lira instead of using £1 = 3.5601 lira a sensible start to Asif’s method to work out the cost of the shoes in pounds? You must give a reason for your answer. ……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………  | (2)(1) (1) |
| 5. | TRESCO Supermarket Sells cheese on its deli counter for £1.88 per 160gWEIGHTROSE Supermarket sells cheese on its deli counter for £13.55 per kgWhich is the best buy?……………………………… | (2) |
| 6. | A street map has a scale of 1 : 75000. Kings Road is 7 cm long on the map. What is the actual length of Church road in kilometres?  ………………… km | (2) |
|  | Topic 7: Sequences | Marks |
| 1 | Here are the first five terms of a number sequence.3 8 13 18 23a) Write down the next two terms of the sequence. ............, ............ b) Explain how you found your answer.  ....................................................................................................................................c) Explain why 387 is not a term of the sequence. .....................................................................................................................................d) What is the nth term for this sequence? …………………………………… | (1)(1)(1)(2) |
| 2. | The nth term of a sequence is n2 + 4Alex says“The n th term of the sequence is always a prime number when n is an odd number.”Alex is wrong.Give an example to show that Alex is wrong. ..................................................................................................................................... | (1) |
| 3. | Here are some patterns made from matchsticks.What is the rule for the nth term?………………………… | (2) |
| 4. | Here are the first four terms of a quadratic sequence. **4, 7, 12, 19, 28…**What is the rule for the nth term of this sequence ………………………… | (2) |