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

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|  | Geometry & Measures | Mark |
| 1. | Calculate the area of the trapezium  trap5    Answer ……………………………… | (2) |
| 2. | Calculate the circumference of the circle.  8cm  Answer ……………………………… | (2) |
| 3. | Calculate the area of the circle.  20cm  Answer ……………………………… | (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)  …………………………… cm2  b)  …………………………… 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 gets  Pheobe ………………….. Polly ………………………… Andy…………………………… | (2) |
| 2. | At school the ratio of boys to girls is 11 : 9  There 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.  .............. lira  Asif 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 160g  WEIGHTROSE Supermarket sells cheese on its deli counter for £13.55 per kg  Which 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 23  a) 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 + 4  Alex 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) |