**YEAR 11 TEST 5 REVIEW HW CALCULATOR Foundation**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Teacher \_\_\_\_\_\_\_\_\_\_**

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| **Transformations** | **/10** | **Number**  | **/10** | **Constructions** | **/10** | **Rounding** | **/10** |

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|  | Transformations |  |
| 1. | Describe the transformation which maps shape P on to Shape Q…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………… | (2) |
| 2. | $$\left(\genfrac{}{}{0pt}{}{-5}{-3}\right)$$Reflect the triangle in the line *y* = 5 Translate Shape A by the vector  | (4) |
| 3. | On the grid, show how this trapezium will tessellate.You should draw at least 6 trapezia.Image result for square paper trapezium tessellate | (2) |
| 4. | Enlarge the shape by a scale factor of 2 | (2) |
|  | **TOTAL** | **10** |

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|  | Number |  |
| 1. | Work out 32 x 17………………………  | (2) |
| 2. | Work out 3492 ÷ 6……………………… | (2) |
| 3. | Given that 57 x 24 = 1368 Work out1. 5.7 x 0.24 = …………………… b) 136.8 ÷ 0.57 = ……………………
 | (2) |
| 4. | A minibus can carry 14 people. 208 people are going on a trip. How many minibuses will be required? ……………………… | (2) |
| 5. | A packet of sweets cost £1.59. Work out the cost of 23 packets: ………………………………….. | (2) |
|  | **TOTAL** | **10** |

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|  | Constructions and Loci |  |
| 1. | Construct a the following triangle using a protractor  5cm | (2) |
| 2. | Construct an equilateral triangle using the line AB as its base. A **B**  | (2) |
| 3. | Use a ruler and a compass to construct a perpendicular bisect of the angle ABC | (2) |
| 4. | Construct a perpendicular of the line ABAB | (2) |
| 5. | A transmitter is to built so that it is no more than 5km from Town A and no more than 4km from town B. Use a scale so that one square represents 1km to show the region where the tramsmiter can be built. | (2) |
|  | **TOTAL** | **10** |

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|  | Rounding |  |
| 1. | Round the following numbers to the degree of accuracy stated in the brackets1. 4,765 (1 d.p.)………………… b) 27.9461 (2 d.p.) …………………

c) 3680 (1 s.f.) ………………… d) 127.72 (2 s.f.) ………………… e) 0.00634 (1 s.f.) ………………… f) 656.293 (3 s.f.) ………………… | (6) |
| 2. | Estimate the answer to the following calculation: ………………… | (2) |
| 3. | Each side of a regular pentagon has a length of 12cm, correct to the nearest cm.Write down the **least** possible length of each side. ................ cmWrite down the **greatest** possible length of each side. ................ cm | (2) |
|  | **Total** | **10** |