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

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

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

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|  | Transformations |  |
| 1. | 1. Work out the area of the shaded shape. .....................cm2 2. Reflect the shaded shape in the mirror line. | (3) |
| 2. | Rotate triangle P 180° around the point (-1, 1). Label the traingle A | (2) |
| 3. | Translate Shape by the vector | (2) |
| 4. | On the grid, show how this kite will tessellate. You should draw at least 8 kites. | (1) |
| 5. | Enlarge the shape by a scale factor of 2 | (2) |
|  | **TOTAL** | **10** |

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|  | Number |  |
| 1. | Work out 16 x 24  ……………………… | (2) |
| 2. | Work out 144 ÷ 3  ……………………… | (2) |
| 3. | Given that 46 x 78 = 3588 Work out   1. 4.6 x 7.8 = …………………… b) 3588 ÷ 7.8 = …………………… | (2) |
| 4. | A minibus can carry 12 people. 176 people are going on a trip. How many minibuses will be required?  ……………………… | (2) |
| 5. | A packet of sweets cost £1.12. Work out the cost of 17 packets:  ………………………………….. | (2) |
|  | **TOTAL** | **10** |

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|  | Constructions and Loci |  |
| 1. | Construct a triangle with sides 7cm, 5cm and 3cm | (2) |
| 2. | In the space below make an accurate construction of the triangle shown. | (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 AB  A  B | (2) |
| 5. | A trasmitted is to be built.  It must be within 2km from Point A and with 3km from point B.  Mark the points were the transmitter can be built. Use a scale 1cm : 1km  B  A | (2) |
|  | **TOTAL** | **10** |

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|  | Rounding |  |
| 1. | Round the following numbers to the degree of accuracy stated in the brackets   1. 3.567 (1 d.p.)………………… b) 14.571 (2 d.p.) …………………   c) 456 (1 s.f.) ………………… d) 56.72 (2 s.f.) …………………  e) 0.00547 (1 s.f.) ………………… f) 68423 (3 s.f.) ………………… | (6) |
| 2. | Estimate the answer to the following calculation:  ………………… | (2) |
| 3. | Each side of a regular pentagon has a length of 7 cm, correct to the nearest cm.  Write down the **least** possible length of each side. ................ cm  Write down the **greatest** possible length of each side. ................ cm | (2) |
|  | **Total** | **10** |