**Year 7 Foundation: Assessment 1 Revision H/W (Non-Calculator) Name \_\_\_\_\_\_\_\_\_\_\_\_\_**

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|  | **Topic 1: Negative Numbers** | Mark |
| 1. | Circle the smallest number:   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | 6 | 2 | -5 | 3 | -4 | 7 | -1 | | 1 |
| 2. | At 8 am, the temperature was 0°C. At midday, the temperature was 6°C higher.  What was the temperature at midday?  …………………………… | 1 |
| 3. | Put an inequality sign in the box. Choose from  >   <   |  |  |  |  | | --- | --- | --- | --- | | (a) | -3 |  | +5 | |  |  |  |  | | (b) | -2 |  | -4 | |  |  |  |  | | 2 |
| 4. | Calculate  (a) 8 - 10 …………………… (b) - 6 + 2 …………………… | 2 |
| 5. | Calculate  (a) -7 - 3 …………………… (b) -3 - 8 …………………… | 2 |
| 6. | Re-write down the following numbers in order from **smallest**to **largest**:  **–**2     6     **–**8    9     **–**11       ………………    ………………    ………………    ………………    ………………  **–**2.6     8.3     **–**1.3     **–**2     2.7      ………………    ………………    ………………    ………………    ……………… | 2 |

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|  | **Topic 2: Algebraic Manipulation** | Mark |
| 1. | There are *x* sweets in a packet.  I eat 4 sweets.  Write an expression for the number of sweets left in the packet.  ……………………… | 1 |
| 2. | Simplify:  (a) a + a + a ………………………  (b) 3a + 2b + 4a + b ………………………  (c) a x 5b ……………………… | 3 |
| 3. | Write an algebraic expression for:   1. Double c ……………………… 2. 6 more than b ……………………… | 2 |
| 4. | Find the value when x = 3  (a) x + 5 ………………………  (b) 2x - 1 ……………………… | 2 |
| 5. | Write an expression for the perimeter of the shape  2a  a  a  2a  ……………………… | 2 |

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|  | **Topic 3: Averages** | Mark |
| 1. | 3 2 4 6 3 3 4  Find the  (a) mode ………………………  (b) median …………………………………………………………………… ………………………  (c) range ……………………… | 3 |
| 2. | Find the mean of 7 3 5 4 6  ……………………… | 2 |
| 3. | Four numbers have a mean of 4.  Three of the numbers are 1, 4 and 8.  What is the fourth number?  ……………………… | 1 |
| 4. | There are two children in the Peacock family.  The range of their ages is exactly 6 years.  What age could the two children be?  ………… and ………… | 2 |
| 5. | (a) What is the modal number of pets owned? ………  (b) What is the range of the number of pets owned ? ……… | 2 |

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|  | **Topic 4: Number Properties** | Mark |
| 1. | 3, 6, 8, 9, 12, 15  Which number from this list is a  (a) prime number ………………………  (b) square number ……………………… | 2 |
| 2. | (a) Write down all the factors of 12  ……… ……… ……… ……… ……… ………  (b) Write down all the factors of 8  ……… ……… ……… ………  (c) Write down the highest common factor of 12 and 8.  ……… | 2  2  1 |
| 3. | (a) Find the first seven multiples of 5  ……… ……… ……… ……… ……… ……… ………  (b) Find the first seven multiples of 6  ……… ……… ……… ……… ……… ……… ………  (c) Find the lowest common multiple (LCM) of 5 and 6.  ……… | 1  1  1 |
| 4. | Sort each of the numbers below into the Venn diagram.   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **9** | **8** | **6** | **25** | **12** | **13** | **30** | **26** |   Multiples of 3  Even numbers | 2 |