**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 shape2aaa2a ……………………… | 2 |

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|  | **Topic 3: Averages**  | Mark |
| 1. | 3 2 4 6 3 3 4Find 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, 15Which 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. ……… | 221 |
| 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.  ……… | 111 |
| 4. | Sort each of the numbers below into the Venn diagram.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **9** | **8** | **6** | **25** | **12** | **13** | **30** | **26** |

Multiples of 3Even numbers | 2 |