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

|  |  |  |
| --- | --- | --- |
|  | **Topic 1: Negative Numbers** | Mark |
| 1. | Write the following numbers in order from smallest to largest:  6, 2, - 5, 3, - 4, 7, - 1   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | ……… | ……… | ……… | ……… | ……… | ……… | ……… | | 2 |
| 2. | At 8 am, the temperature was –2°C. At midday, the temperature was 6°C higher.  What was the temperature at midday?  ……… | 1 |
| 3. | (a) -3 + 5 ……… (b) 3 – 7 ………. (c) - 2 – 4 ……… | 3 |
| 4. | (a) 8 + - 4 ……… (b) - 6 + - 2 ……… | 2 |
| 5. | (a) 7 - - 3 ……… (b) -3 - - 8 ……… | 2 |

|  |  |  |
| --- | --- | --- |
|  | **Topic 2: Algebraic Manipulation** | Mark |
| 1. | There are *x* sweets in a packet.  I eat 3 sweets.  Write an expression for the number of sweets left in the packet.  ……………… | 1 |
| 2. | Simplify: (a) 4a + 7b – 2a ………………………  (b) 3a + 2b + 4a – 6b ………………………    (c) 4a x 5a ……………………… | 3 |
| 3. | Expand 4(3a + 7) ……………………… | 2 |
| 4. | Find the value when x = 3    (a) 2x + 5 ……………………… (b) x² + 4 ……………………… | 2 |
| 5. | Find the value when a = 2 and b = 5  3a + 4b ……………………… | 2 |

|  |  |  |
| --- | --- | --- |
|  | **Topic 3: Averages** | Mark |
| 1. | 3 2 4 6 3 3 4 2 5 4  Find the  (a) mode ……………………… (b) range ………………………  (c) median ……………………… | 3 |
| 2. | Find the mean of: 5 9 - 1 3 - 2 10  ……………………… | 2 |
| 3. | Four numbers have a mean of 6.  Three of the numbers are 1, 4 and 8.  What is the fourth number?  ……………………… | 2 |
| 4. | Find the **mean** homework mark   |  |  |  | | --- | --- | --- | | **Homework Mark** | **Frequency** | **Subtotal** | | 5 | 1 |  | | 6 | 2 |  | | 7 | 8 |  | | 8 | 4 |  | | 9 | 5 |  | |  |  |  |   …………… | 3 |

|  |  |  |
| --- | --- | --- |
|  | **Topic 4: Number Properties** | Mark |
| 1. | Which number from this list: 3, 6, 8, 9, 12, 15  (a) is a prime number ………… (b) is a square number ………… | 2 |
| 2. | Find the lowest common multiple (LCM) of 5 and 8  ……………………… | 2 |
| 3. | Find the highest common factor (HCF) of 12 and 30  ……………………… | 2 |
| 4. | Write 30 as a product of prime factors  ……………………… | 2 |
| 5. | Find the value of (a) 3 + 4 x 5 (b) 12 – 8 ÷ 2  ……………………… ……………………… | 2 |