YEAR 7 TEST 1 ASSESSMENT HOMEWORK –

CALCULATOR NOT ALLOWED Foundation

NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TEACHER \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Negative Numbers |  /10 | Algebraic Manipulation | /10 | Averages |  /10 | Number properties | /10 |

|  |  |  |
| --- | --- | --- |
|  | **Negative Numbers** |  |
| **1.****S** | a) Circle the smallest number:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| -3 | 4 | -13 | 9 | 1 | -5 |

 | **(1)** |
| **2.****S** | Fill in the missing numbers on these scales

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -13 |  | -5 | -1 |  | 7 |  | 15 | 19 |  | 27 |

 | **(4)** |
|  |  |  |
|  |
| **3.****S** | Put the correct inequality sign in the box. Choose from > <

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 2 |  |  -5 |  |  |
|  |  |  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

 | **(1)** |
| **4.****F** | Write down the following numbers in order from **smallest** to **largest**: **–**6 7 **–**1 9 **–**8 | **(1)** |
|  |  |  |
| **5.****M** | Calculatea) 3 – 9 = ……………… c) -2 – 4 = …………………..b) -5 + 3 = ……………… | **(3)** |
|  | **TOTAL** | **(10)** |
|  |  |  |
|  |  |  |
|  | **Algebraic Manipulation** |  |
| **1.****S** | Simplify the followinga) n + n + n …………………………b) 3*a* + 6*c* + 2*a* + 2*c* …………………………c) 8d – 6d…………………………d) a x 4b ……………………… | **(4)** |
|  |  |  |
| **2.****F** | Write down the algebraic expression for:a) 3 more than a …………………………b) 4 less than b …………………………c) double x …………………………d) half of h ………………………… | **(4)** |
|  |  |  |
|  |  |  |
| **3.****M** | The perimeter of this shape is 3a + 2b.aaabb **p = 3a + 2b**Write an expression for the perimeters of each of these shapes.5e 5e 2f 4f  bbb…………………………………………… …………………………………………… | **(2)** |
|  |  |  |
|  |  |  |
|  | **TOTAL** | **(10)** |
|  |  |  |
|  |  |  |
|  | **Averages** |  |
| **1.****S** | Which letter is the **mode**? M A T H S I S S U P E R…………………………  | **(1)** |
| **2.****S** | Here are some number cards :

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** |  | **3** |  | **3** |  | **5** |  | **13** |

Find:a)The **mode**. …………………… b) The **median**. ……………………c)The **mean**. ……………………d) The **smallest** …………………e) The **largest** …………………f) The **range** …………………… | **(6)** |
|  |  |  |
| **3.M** | The table shows the midnight temperature on each day for eight days.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Day | M | T | W | T | F | S | S | M |
| Temperature (°C) | -7 | -8 | 1 | 0 | -4 | 3 | 4 | -1 |

a) Work out the **range** of temperatures. ………………………°Cb) Find the **modal** temperature. ………………………°Cc) Find the **median** temperature.   ………………………°C  **TOTAL**  | **(1)****(1)****(1)****(10)** |
|  | **Number Properties** |  |
| **1.****S** | Circle the multiples of 10.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 20 | 32 | 80 | 6.0 | 140 |

Circle the multiples of 5.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 46 | 35 | 145 | 230 | 31 |

 | **(2)** |
| **2.****F** | Sort the numbers below into the correct section.**3, 9, 12, 15, 20, 21, 22** **Multiples of 3 Even Numbers**   | **(3)** |
|  |  |
|  |  |
|  |  |
| **6.****M** | Write down all the **factors** of 10……………………………………………………………………………………………………………………………………………………Write down all the **factors** of 18 ……………………………………………………………………………………………………………………………………………………Write down the **highest common factor** ( HCF) of 10 and 18 ……………… |  **(2)****(2)****(1)** |
|  | **TOTAL** | **(10)** |