**Year 7 Unit 3 Assessment – Directed Number**

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Total Marks

Name:...........................................

Teacher:........................................

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| **1** | Spot the pattern and fill in the gaps:  1 + 2 = \_\_\_\_  1 + 1 = \_\_\_\_  1 + 0 = \_\_\_\_  1 + -1 = \_\_\_\_  1 + \_\_\_\_ = \_\_\_\_  1 + \_\_\_\_ = \_\_\_\_  (2 marks) |
| **2** | The temperature is now 2°C.   1. What is the temperature after an 8°C decrease?   ............................. °C  (2 marks)   1. If the temperature the day before was -3°C, what is the increase?   ............................. °C  (2 marks) |
| **3** | 1. The temperature in Warsaw is -3°C. It is 4 times colder in Moscow. What is the temperature in Moscow?   ............................. °C  (2 marks)   1. It is 4 times colder in Antarctica in winter than in summer. In winter it is -24°. What would you expect the temperature to be in summer?   ............................. °C  (2 marks) |
| **4** | Work out the following:   1. -4 + +3 - +5 = \_\_\_\_     (2 marks)   1. 4 - +3 + +5 = \_\_\_\_     (2 marks)   1. -4 + -3 - -5 = \_\_\_\_     (2 marks) |
| **5** | Fill in the gaps. You must show how you worked it out.   1. -5 × \_\_\_\_ = -30 ÷ 2   (3 marks)   1. (3 + -5) × (-12 - -8) = \_\_\_\_   (4 marks)   1. -32 ÷ \_\_\_\_ = (-4)2       (3 marks) |
| **6** | The fractions are equally spaced. What are the missing fractions?    (6 marks) |