**End of Unit Test** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Inequalities - FOUNDATION**

**1.** Put the correct symbol in each box. Choose from      <      >      =

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

**(Total 3 marks)**

**2.** Circle the inequality shown by the diagram.



**(Total 1 mark)**

**3.** (a) is an integer.

Work out the **largest** possible value of .

……………………………………………………………………………………………

……………………………………………………………………………………………

   Answer .................................................................................

**(1)**

(b) is an integer.

Work out the **smallest** possible value of *y*3

……………………………………………………………………………………………

……………………………………………………………………………………………

   Answer .................................................................................

**(1)**

**(Total 2 marks)**

**4.**

List the possible **integer** values of *x*.

…………………………………………………………………………………………………………

…………………………………………………………………………………………………………

…………………………………………………………………………………………………………

Answer ......................................................................

**(Total 3 marks)**

**5.** Solve

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Answer ......................................................................

**(Total 2 marks)**

**6.** (a) Solve

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……………………………………………………………………………………………

Answer ......................................................................

**(2)**

(b) Show    on the number line.



**(2)**

**(Total 4 marks)**

**7.** (a) Write down **all** the integers that satisfy

……………………………………………………………………………………………

……………………………………………………………………………………………

Answer ...................................................................................

**(1)**

(b) Show     on the number line.



**(2)**

**(Total 3 marks)**

**8.** Solve

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Answer ............................................

**(Total 2 marks)**

**(Total for test = 20 marks)**