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

**Transformations - FOUNDATION**

1) (a) Translate triangle *T* by the vector $\left(\begin{matrix}4\\-5\end{matrix}\right)$



**(2)**

(b) Reflect triangle *T* in the line *y* = −1



**(2)**

**(Total 4 marks)**

2) (a) Enlarge this shape by scale factor 2 with centre of enlargement point *P*.



**(3)**

(b) Describe fully the **single** transformation that maps shape *A* to shape *B*.



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 **(3)**

**(Total 6 marks)**

3) Shapes A and B are shown on the grid.



(a) Reflect shape A in the line *y* = 1

**(2)**

(b) Describe fully the **single** transformation that maps shape A to shape B.

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 **(3)**

**(Total 5 marks)**

4) Here are two column vectors.

 **f** = $\left(\begin{matrix}4\\5\end{matrix}\right)$ **g** = $\left(\begin{matrix}5\\-2\end{matrix}\right)$

Work out     3**f** − 2**g**

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

**(Total 2 marks)**

5)*WXYZ* is a trapezium.

 = **s**

**** = **t**

*ZY : WX* = 3 : 2



(a) Write vector in terms of **s**

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…………………………………………………………………………………………………..

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

**(1)**

(b) Work out vector in terms of **s** and **t**Give your answer in its simplest form.

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

**(2)**

**(Total 3 marks)**

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