Question	Answer	Mark	Comments
1	(5 -8)	B1	

Q	Answer	Mark	Comments	
	(4 -3)	B2	B1 $\begin{pmatrix} 4 \\ \end{pmatrix}$ or $\begin{pmatrix} \\ -3 \end{pmatrix}$ SC1 $\begin{pmatrix} -4 \\ 3 \end{pmatrix}$	
	Additional Guidance			
	$(4, -3)$ or $\begin{pmatrix} -3\\4 \end{pmatrix}$			В0
2	Ignore words if a vector is also seen			
	eg1 Reflection $\begin{pmatrix} 4 \\ -3 \end{pmatrix}$			B2
	eg2 4 right 3 up and $\begin{pmatrix} 4 \\ 3 \end{pmatrix}$			B1
	eg3 4 right 3 down			B0
	eg4 Rotate 4 left and 3 up and $\begin{pmatrix} -4\\3 \end{pmatrix}$			SC1
	Condone any type of brackets			
	Condone missing brackets for B2 or B1 or SC1 but must have two numbers in a column			
	Condone 'fraction line' for B2 or B1 or SC1 but must have two numbers in a column			
	$\begin{pmatrix} 4x \\ -3y \end{pmatrix}$ or $\begin{pmatrix} x4 \\ -y3 \end{pmatrix}$ or $\begin{pmatrix} x+4 \\ y-3 \end{pmatrix}$ or $\begin{pmatrix} 3x+4 \\ y-3 \end{pmatrix}$	4 right 3 down	or $\begin{pmatrix} 4 \text{ r} \\ 3 \text{ d} \end{pmatrix}$ or $\begin{pmatrix} 4 \rightarrow \\ 3 \downarrow \end{pmatrix}$	B0

ø	Answer	Mark	Comments	
	Translation	B1	allow eg translate(d)	
	$\begin{pmatrix} -3\\0 \end{pmatrix}$	B1		
	Additional Guidance			
	Do not accept a vector given as coordinates or with missing brackets or with 'fraction line'			
3(a)	Translation from (0, 0)			B1B0
	Translation horizontally by 3			B1B0
	Translate 3 to the left and 3 down			B1B0
	Reflect by $\begin{pmatrix} -3\\0 \end{pmatrix}$			B0B1
	Giving a combined transformation is B0B0			
	Rotate by $\begin{pmatrix} -3\\0 \end{pmatrix}$ and reflect in the <i>x</i> -axis			B0B0
	Ignore references to movement if vector is correct			
	eg Move to the right by $\begin{pmatrix} -3\\0 \end{pmatrix}$			B0B1

Q	Answer	Mark	Comment	
	Alternative method 1: ABC to DEF			
4	Translation and $\begin{pmatrix} 6\\4 \end{pmatrix} \text{ or } 6 \text{ right and } 4 \text{ up}$	B2	B1 translation or $\begin{pmatrix} 6 \\ 4 \end{pmatrix}$ or 6 right and 4 up  B1 translation or $\begin{pmatrix} -6 \end{pmatrix}$	
	Additional Guidance			down
	Do not accept 'across' for left or right			
	Do not accept (6, 4) or $\begin{pmatrix} 3 \\ 2 \end{pmatrix}$			
	Do not accept any contradicting description and vector for B2 or B1			
	Ignore fraction line shown in a correct vector			
	Accept the vector implied by addition to each coordinate oe eg Translation and			
	A to $D \to -4 + 6 = 2$ and $1 + 4 = 5$			B2
	B to $E \rightarrow -5 + 6 = 1$ and $-3 + 4 = 1$ C to $F \rightarrow -2 + 6 = 4$ and $-3 + 4 = 1$			
	More than one transformation used			B0

Q	Answer	Mark	Comments	
5	(3 7)	B1		
	Additional Guidance			
	Condone + sign and/or fraction line eg $\left(\frac{+3}{-7}\right)$			B1
	(3, -7)			B0