## Match-Up

## Matrix Transformations

1	Rotation of 90° clockwise about the origin
2	Enlargement of scale factor 2 about the origin
3	Reflection in the $x$ -axis
4	Reflection in the line $y = x$
5	Rotation of $90^\circ$ anti-clockwise about the origin
6	Enlargement of scale factor 3 about the origin
7	Reflection in the $y$ -axis
8	Rotation of $180^\circ$ about the origin
9	Enlargement of scale factor 2 about the origin, followed by a reflection in the $y$ -axis
10	Reflection in the line $y = -x$
11	Rotation of $90^{\circ}$ clockwise about the origin, followed by an enlargement of scale factor $2$
12	Enlargement of scale factor 3, followed by a reflection in the $x$ -axis

A	$\begin{pmatrix} 0 \\ -1 \end{pmatrix}$	$\begin{pmatrix} -1 \\ 0 \end{pmatrix}$		
В	$\begin{pmatrix} -1 \\ 0 \end{pmatrix}$	0 -1)		
С	$\binom{3}{0}$	$\binom{0}{3}$		
D	$\begin{pmatrix} -1 \\ 0 \end{pmatrix}$	$\binom{0}{1}$		
E	$\binom{2}{0}$	$\binom{0}{2}$		
F	$\begin{pmatrix} 0 \\ -1 \end{pmatrix}$	$\binom{1}{0}$		
G	$\binom{3}{0}$	$\binom{0}{-3}$		
н	$\binom{1}{0}$	$\binom{0}{-1}$		
I	$\begin{pmatrix} 0 \\ -2 \end{pmatrix}$	$\binom{2}{0}$		
J	$\binom{0}{1}$	$\binom{-1}{0}$		
K	$\begin{pmatrix} -2 \\ 0 \end{pmatrix}$	$\binom{0}{2}$		
L	$\binom{0}{1}$	$\binom{1}{0}$		

1	2	3	4	5	6	7	8	9	10	11	12