

Answer Key:

**A-H-C-D-M-B-P-G-F-J-E-L-K-
O-I-N-A**

Letter	Answer	Letter	Answer
A	$\sqrt{41}$	J	$2 - 2a$
B	$y = 0.5x + 0.5$	K	$0.5a + 4.5b$
C	$\frac{\sqrt{41}}{41} \begin{pmatrix} -2 \\ 6 \\ -1 \end{pmatrix}$	L	$a = \frac{2 - \sqrt{5}}{2}$
D	$\frac{5\sqrt{13}}{13} \begin{pmatrix} 2 \\ 3 \end{pmatrix}$	M	$a = -0.852$
E	$\begin{pmatrix} -3 \\ -1 \\ 3 \end{pmatrix}$	N	$\theta = 2.42$
F	$\frac{5}{3} \begin{pmatrix} 3\cos\theta \\ 3\sin\theta \end{pmatrix}$	O	1
G	$(3, 3, -1)$	P	$0.5a - b + 0.5c$
H	2		
I	$\theta = 1.48$		



Teaching method:

This has been designed as a treasure hunt activity – but there are a number of ways this can be used in a class.

- 1) One copy is printed off and arranged around the classroom. Students then start with which ever question they want, and then once they have found the answer try to find the next question with this answer in the top left hand corner. They make a note of the letter string (e.g. D-E-B etc.). First student/team to complete the full string wins.
- 2) A number of copies are printed off and students work in teams sorting out the paper into a loop on their desks.
- 3) This can simply be used as a selection of questions to show students on the board. Students are shown a question and try to write their answers down. At the end they are shown the correct answers.