

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

### Inverse matrix - Coding message

Using the substitution scheme,

1	2	3	4	5	6	7	8	9	10	11	12	13
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
A	B	C	D	E	F	G	H	I	J	K	L	M
14	15	16	17	18	19	20	21	22	23	24	25	26
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
N	O	P	Q	R	S	T	U	V	W	X	Y	Z

and matrix A =  $\begin{bmatrix} 3 & 5 \\ 1 & 4 \end{bmatrix}$

Code the following message:

MOTHER	HEAR
JACK IS HERE	CALM
GOAL	DIVINE
EYES	SCHOOL
DO SAVE	THANK YOU

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

### Answer Key

#### Inverse matrix - Coding message

MOTHER :

114, 73, 100, 52, 105, 77

HEAR:

49, 28, 93, 73

JACK IS HERE:

35, 14, 64, 47, 122, 85, 49, 28, 79, 38

CALM:

14, 7, 101, 64

GOAL :

96, 67, 63, 49

DIVINE:

57, 40, 111, 58, 67, 34

EYES:

140, 105, 110, 81

SCHOOL:

72, 31, 99, 68, 105, 63

DO SAVE:

87, 64, 62, 23, 91, 42

THANK YOU:

100, 52, 73, 57, 158, 111, 150, 99