

Student Name: _____

Score: _____

Inverse matrix - Decoding 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 $A = \begin{bmatrix} 3 & 5 \\ 1 & 4 \end{bmatrix}$

Decode the following

109, 55, 145, 81, 14
66, 74, 34

64, 33, 115, 85, 64,

111, 58, 85, 61, 47,

96, 67, 66, 36

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52, 104, 79

5, 77, 41, 16, 62, 30

0, 99, 100, 52

108, 64, 20, 9, 82, 39

Student Name: _____

Score: _____

Answer Key

Inverse matrix - Decoding message

109, 55, 145, 81, 145, 95, 165, 111, 93, 66, 74, 34:

105, 63, 140, 77, 93, 52, 104, 79:

OLYMPICS

WHY NOT OXFORD

64, 33, 115, 85, 64,

PREVIEW

5, 77, 41, 16, 62, 30:

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111, 58, 85, 61, 47,

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), 99, 100, 52:

VIENNA

96, 67, 66, 36:

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