

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Organizing Data Using Matrices Bell Work

Find the elements of the Matrix Below

$$E = \begin{bmatrix} 1 & 2 & 3 & 4 \\ 5 & 6 & 7 & 8 \\ 9 & 0 & -1 & -2 \\ -3 & -4 & -5 & -6 \end{bmatrix}$$

1. Find  $E_{32}$

2. Find  $E_{43}$

3. Find  $E_{24}$

Matrix G below shows the score of the three students in three math quiz.

	1	2	3
student A	24	15	18
student B	25	23	20
student C	20	24	17

4. Who got the highest score in the third quiz?

5. In which quiz student B excel the most?

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## Organizing Data Using Matrices Bell Work

Identify the Element of a matrix in the given data.

Below are the number of participants in the junior high school basketball team, according to gender and year level

	Male	Female
FIRST YEAR	20	12
SECOND YEAR	12	8
THIRD YEAR	8	5

6. Create a 3X2 matrix for the data above and label it matrix B.

7. Find  $B_{12}$ , what does it represent?

8. Find  $B_{31}$ , what does it represent?

A survey was conducted for three leading Brand of toothpaste; 32 males and 21 females preferred brand A, 24 males and 32 females preferred brand B and 20 males and 27 females preferred brand C.

9. Create a 2X3 matrix and label it Matrix C.

10. Find  $C_{22}$ , what does it represent?

# Organizing Data Using Matrices Bell Work

Answer:

Find the elements of the Matrix Below

$$E = \begin{bmatrix} 1 & 2 & 3 & 4 \\ 5 & 6 & 7 & 8 \\ 9 & 0 & -1 & -2 \\ -3 & -4 & -5 & -6 \end{bmatrix}$$

1. Find  $E_{32}$

$$E_{32} = 0$$

2. Find  $E_{43}$

$$E_{43} = -5$$

3. Find  $E_{24}$

$$E_{24} = 8$$

Matrix G below shows the score of the three students in three math quiz.

	1	2	3
student A	24	15	18
student B	25	23	20
student C	20	24	17

4. Who got the highest score in the third quiz?

student B

5. In which quiz student B excels the most?

first quiz

Identify the Element of a matrix in the given data.

Below are the number of participants in the junior high school basketball team, according to gender and year level

	Male	Female
FIRST YEAR	20	12
SECOND YEAR	12	8
THIRD YEAR	8	5

6. Create a 3X2 matrix for the data above and label it matrix B.

$$B = \begin{bmatrix} 20 & 12 \\ 12 & 8 \\ 8 & 5 \end{bmatrix}$$

7. Find  $B_{12}$ , what does it represent? 12, number of first year female participants of the basketball team.

8. Find  $B_{31}$ , what does it represent? 8, number of third year male participants of the basketball team.

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## Organizing Data Using Matrices Bell Work

A survey was conducted for three leading Brand of toothpaste; 32 males and 21 females preferred brand A, 24 males and 32 females preferred brand B and 20 males and 27 females preferred brand C.

9. Create a 2X3 matrix and label it Matrix C.

$$C = \begin{bmatrix} 32 & 24 & 20 \\ 21 & 32 & 27 \end{bmatrix}$$

10. Find  $C_{22}$ , what does it represent?

32, it's the number of female who preferred brand B.