

Name: _____ Period: _____ Date: _____

Organizing Data Using Matrices Exit Quiz

Solve the following problems involving Matrices given the table below.

Below is the number of participants in the sport festival of school Y arranged according to year level.

	1st year	2nd year	Third year
Volleyball	102	82	50
Basketball	105	80	56
Table Tennis	52	36	28
Badminton	50	30	23

1. How many participants are third year and played basketball?

2. How many participants are first year or played badminton?

3. Create a 4X3 matrix and Label it matrix Y.

4. Find Y_{32} , what does it represent?

5. Find Y_{23} , what does it represent?

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Answer:

Solve the following problems involving Matrices given the table below.

Below is the number of participants in the sport festival of school Y arrange according to year level.

	1st year	2nd year	Third year
Volleyball	102	82	50
Basketball	105	80	56
Table Tennis	52	36	28
Badminton	50	30	23

1. How many participants are third year and played basketball? 56

2. How many participants are first year or played badminton?

$$(102+105+52+50) + (50+30+23) - 50 = 309 + 103 - 50 = 362$$

3. Create a 4X3 matrix and Label it matrix Y.

$$Y = \begin{bmatrix} 102 & 82 & 50 \\ 105 & 80 & 56 \\ 52 & 36 & 28 \\ 50 & 30 & 23 \end{bmatrix}$$

4. Find Y_{32} , what does it represent? 36, number of second year, participants in table tennis

5. Find Y_{23} , what does it represent? 56, number of third year, participants in basketball