# Write a column vector <br> from a diagram 

Maths

Miss Davies

## Write a column vector from a diagram

1. Vectors $\mathbf{w}, \mathbf{x}, \mathbf{y}$ and $\mathbf{z}$ are drawn on the grid.

|  |  |  |  |  |  |  | $\mathbf{x}$ |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | $\mathbf{w}$ |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | $\mathbf{z}$ |
|  |  |  |  |  |  |  | $\mathbf{y}$ |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

a) Write $\mathbf{w}$ as a column vector.
b) Write $\mathbf{x}$ as a column vector.
c) Write y as a column vector.
d) Write $\mathbf{z}$ as a column vector.
2. Imran says that vector $\overrightarrow{X Y}$ is $\binom{-2}{5}$.

a) What mistake has Imran made?
b) What is the correct answer for vector $\overrightarrow{X Y}$ ?

## Write a column vector from a diagram

3. Use the grid to match up the cards.


Answers

## Write a column vector from a diagram

1. Vectors $\mathbf{w ,}, \mathbf{x}, \mathbf{y}$ and $\mathbf{z}$ are drawn on the grid.

|  |  |  |  |  |  |  | $\mathbf{K}$ |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | WV |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | $\mathbf{Z}$ |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

a) Write $\mathbf{w}$ as a column vector. $\binom{3}{2}$
b) Write $\mathbf{x}$ as a column vector. $\binom{2}{0}$
c) Write $\mathbf{y}$ as a column vector. $\binom{-3}{3}$
d) Write $\mathbf{z}$ as a column vector. $\binom{0}{3}$
2. Imran says that vector $\overrightarrow{X Y}$ is $\binom{-2}{5}$.

a) What mistake has Imran made? He has got the vertical and horizontal parts the wrong way round.
b) What is the correct answer for vector $\overrightarrow{X Y} ?\binom{5}{-2}$

## Write a column vector from a diagram

3．Use the grid to match up the cards．

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