

L.I. To Identify, describe and represent the position of a shape following a reflection or translation and to give directions using at least 4 points a compass

BACKGROUND / CONTEXT

The tasks today have two parts:

1. Reading and finding coordinates
2. Using compass directions, North, South, East and West to locate places

Coordinates

A point on a grid has two numbers to identify its position. These numbers are known as coordinates.

Coordinates are always written as the number of steps across first, then the number of steps up or down.

Grids have two axes . The horizontal axis is called the x-axis and the vertical axis is called the y-axis . These axes can be used to find a point on a grid. Remember you always give the x-axis reading first, then the 'y-axis'. It might help to think about this 'Along the corridor and up the stairs'

Useful video: <https://www.bbc.co.uk/bitesize/topics/zgthvcw/articles/z96k9qt>

Compass Directions (Geography)

The top of most maps is **north** and a **compass** can be used to find which **direction** north is. Compasses show four directions - north, **east**, **south** and **west** .

The needle always points north, so when that is lined up with the map it is easy to see in which direction things are.

Useful video: <https://www.bbc.co.uk/bitesize/topics/zvsfr82/articles/zdk46v4>



Coordinates

TASK 1:

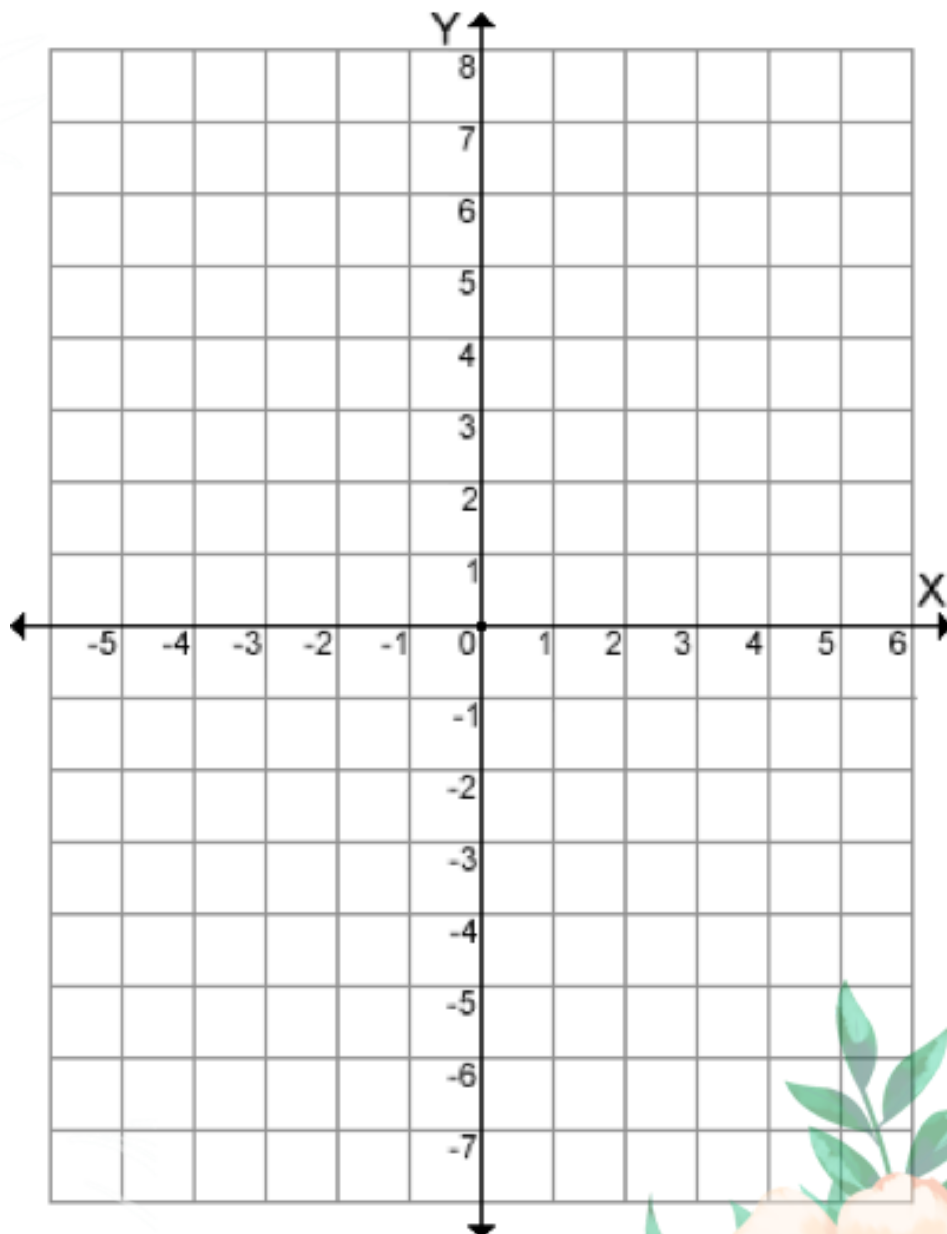
Follow the instructions and plot the coordinates. Once you have finished, join the coordinates in the quadrant to make a letter.

$(-4, 1)$ $(-4, 3)$ $(-4, 7)$ $(-1, 7)$ $(-1, 4)$ $(-4, 4)$

What is the letter?

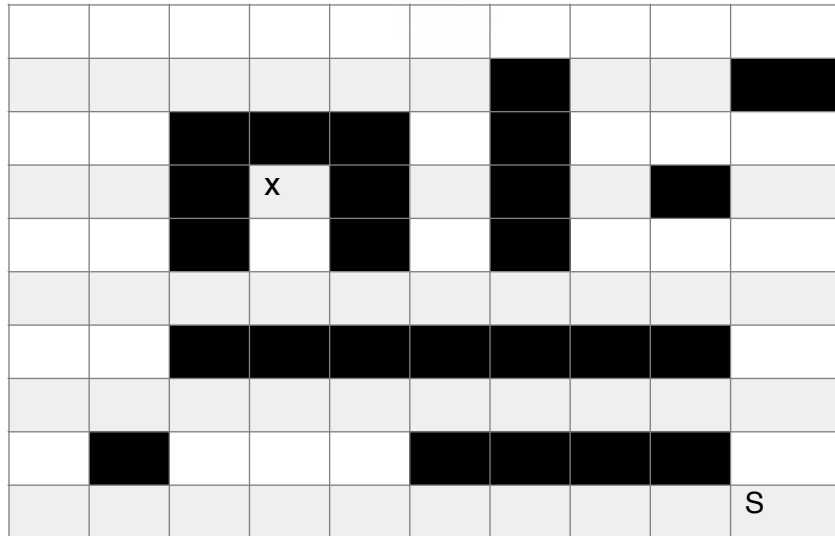
TASK 2:

Use the letter you've drawn and plot the coordinates for its **reflection** in each of the other three quadrants.

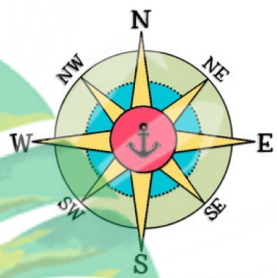




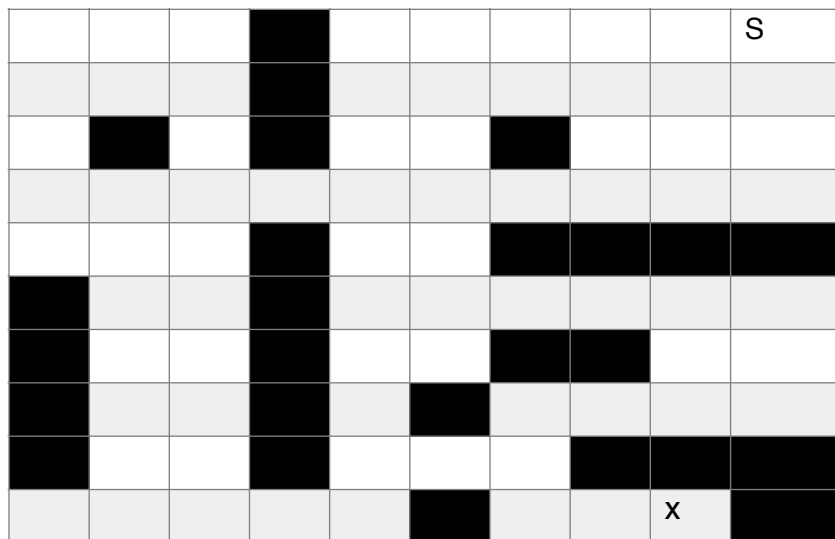
3. ENCHANTED GLADE



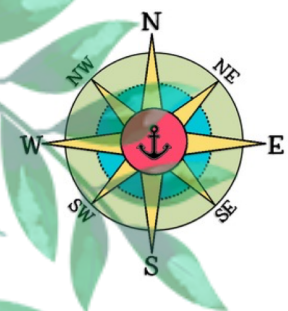
DIRECTIONS:



4. MAGICAL LAGOON



DIRECTIONS:



TASK 4: CHALLENGE

GO BACK OVER THE DIRECTIONS YOU HAVE WRITTEN.

CAN YOU CREATE A QUICKER ROUTE FOR EACH PART OF THE ISLAND THEY TRAVEL THROUGH?