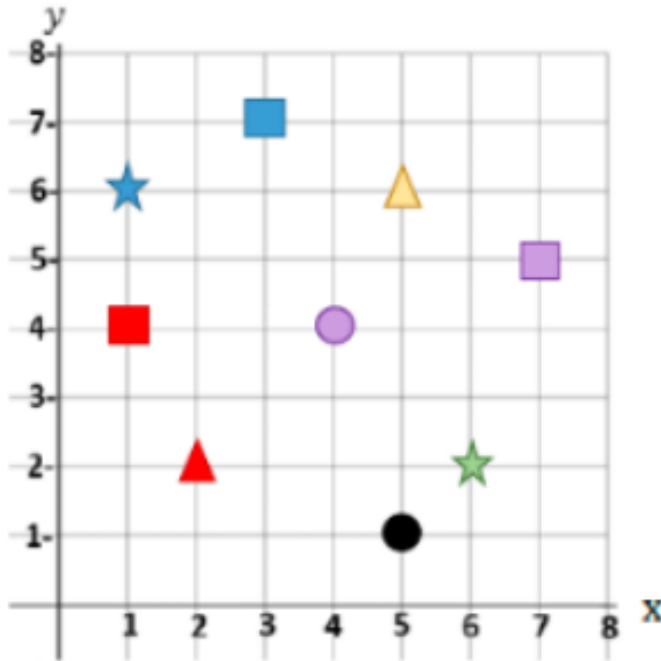


Year 5 Position and Direction

Key Vocabulary
position
direction
quarter turn
half turn
three-quarter turn
whole turn
straight line
rotation
order
arrange
patterns
sequences
co-ordinates
first quadrant
grid
translation
plot
polygon
axis
reflection



The red triangle is at $(2, 2)$
 The purple square is at $(7, 5)$
 The blue star is at $(1, 6)$



When you are using coordinates you always read or write the number on the x-axis before the y-axis.

A good way to remember which axis is which, is the rhyme 'y to the sky!'



To write a coordinate you put the x and y position within brackets with a comma.

$(5, 1)$
 ↙ ↘
 x axis y axis

When writing or reading coordinates, a good way to remember which to read or write first is to use 'along the corridor and up the stairs.'
 You move along the x-axis and up the y-axis.



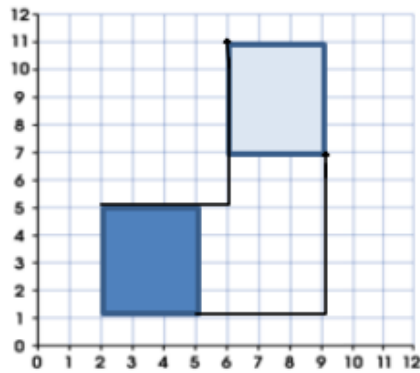
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Translation

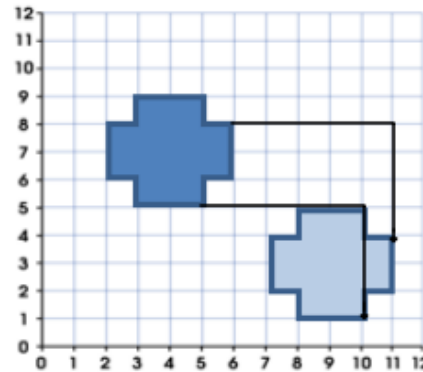


Translation is the process of moving an object around a grid. When moving the object, the size does not change and you do not turn or reflect it.

You can translate objects left, right, up or down around a grid.



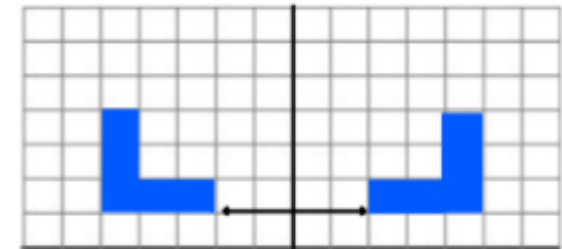
This shape has translated
4 right, 6 up



This shape has translated
5 right, 4 down

Reflecting Shapes

Reflection is when shapes are reflected in a line that acts as a mirror.



All points on both the original shape and its reflection are **equal distance** from the line they have been reflected in.

