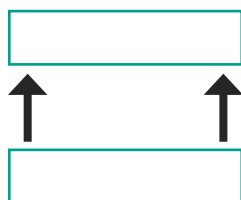


# Reflection and Translation of Shapes Vocabulary

## Translate / Translation

A shape is translated when it is moved without rotating or resizing.

Every point of the shape moves the same distance in the same direction.



## Reflect / Reflection

A shape is reflected about a line when it is flipped over a mirror line.

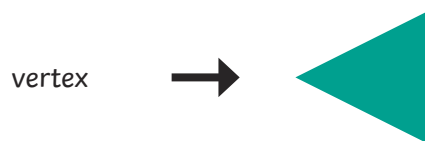


Every point of the shape is the same distance from the mirror line as the same point on the reflected shape.

## Vertex / Vertices

The corner of a shape is called a vertex.

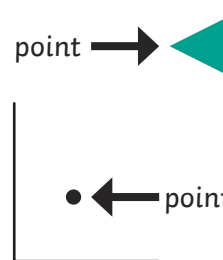
The plural is vertices. A triangle has 3 vertices.



## Point

A point is an exact location.

It has no size, only position. They are shown by dots or parts of a line, but they have no size.

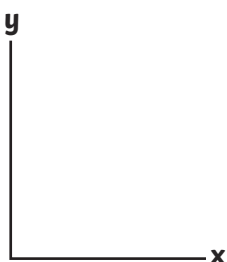


## Axis / Axes

A coordinate grid has axes. **y**

The x axis is horizontal.

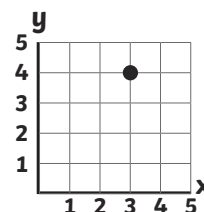
The y axis is vertical.



## Coordinates

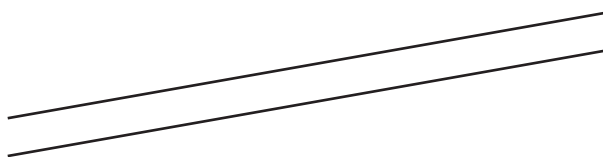
Coordinates mark the location of a point on a coordinate grid.

The coordinates are written in brackets in the format (x,y) where x is how far along and y is how far up.



## Parallel

Parallel lines are always the same distance apart and never touching.



## Perpendicular

Perpendicular lines meet at a right angle.

