



## Position and direction



### Lesson sequence

- Read and plot coordinates
- Problem solving with coordinates
- Translation
- Translation with coordinates
- Lines of symmetry
- Reflection in horizontal and vertical lines

### Vocabulary

- Coordinates
- Translation
- Symmetry
- Horizontal
- Vertical
- Shape
- X axis
- Y axis
- Up/down left/right
- Mirror line/line of reflection
- Parallel
- Axes
- Reflect
- Vertices
- Sides

### Sticky learning

#### New Knowledge

- *To know that a diagonal is line joining two non-adjacent vertices or corners of a polygon*
- *To know that a shape has not changed if it has been reflected or translated*
- *Reflect different shapes and patterns on a line of symmetry*

#### New Skills

- *To identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language*

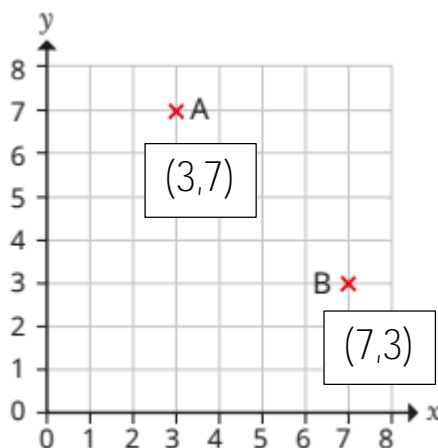
### Concept Links/Prior Knowledge

- *To read, write and use pairs of coordinates*
- *Know that translating a shape means moving it on a grid*
- *Know that coordinates go up from the origin (0,0)*
- *know that you read coordinates on the x-axis followed by the y-axis*
- *Identify lines of symmetry in 2-D shapes presented in different orientations*
- *Recognise line symmetry in a variety of diagrams*
- *To describe movements between positions as translations of a given unit to the left/right and up/down*

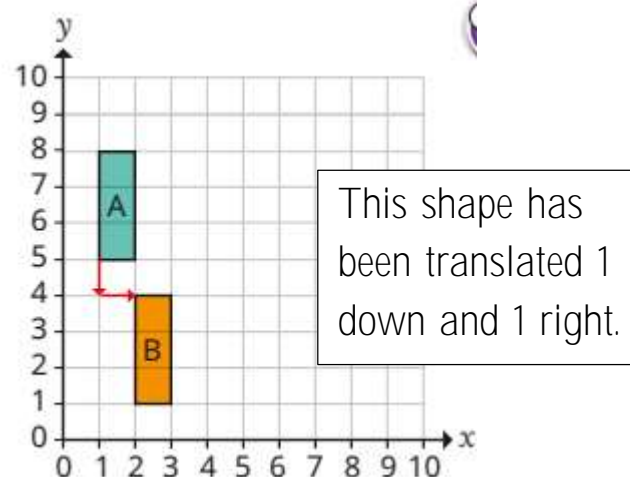


## Pictorial representations

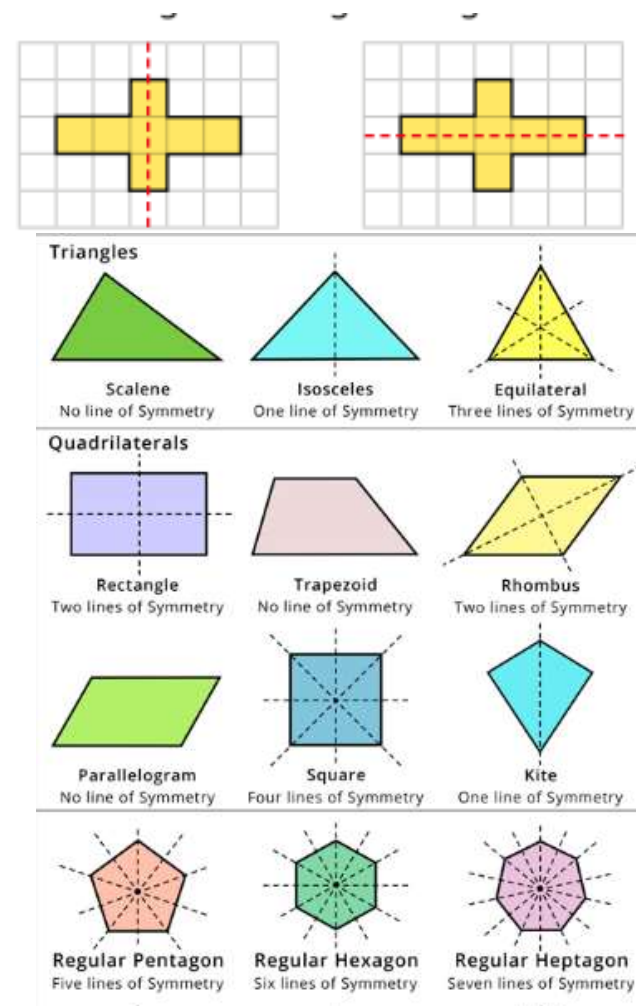
### Plotting coordinates



### Translation



### Lines of symmetry



### Reflection

