



NC

Describe positions on the full coordinate grid (all 4 quadrants)
 Draw and translate simple shapes on the coordinate plane, and reflect them in the axes

Focus: Position and Direction

Time: 1 week

Times Tables 5NF-1

Consolidate and practice all multiplication and division facts to 12x12 – any order, missing numbers, fractions.

Use multiplication and division facts to derive associated facts.

Develop multiplicative reasoning - links between multiplication, division and fractions.

Concept Sequence

The first quadrant - describe the position on the first quadrant. Read and plot co-ordinates. Draw 2D shapes from given co-ordinates. Write co-ordinates without plotting.

Four quadrants - describe the position on the full co-ordinate grid (4 quadrants) and plot. Draw shapes from given co-ordinates. Note which part of axes are positive/negative. Find length of lines by using co-ordinates of end-points.

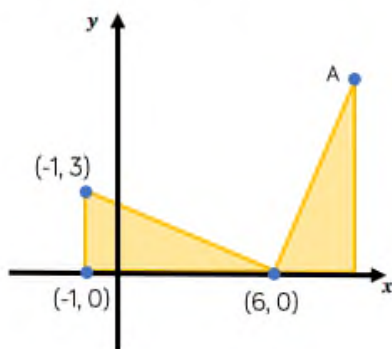
Translations – use co-ordinate and positional language to translate shapes in all four quadrants. Describe using directional language, use instructions to draw translated shapes.

Reflections – reflect shapes in all four quadrants. Reflect in x and y axes.

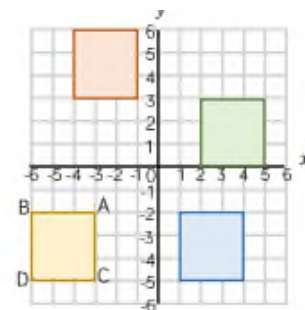
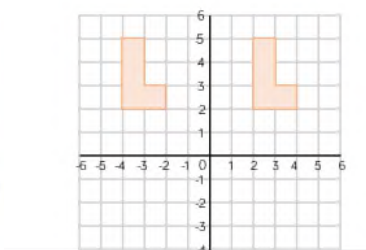
Vocabulary

- Position
- Above, below
- Top, bottom, side
- Middle, edge, centre, corner
- Journey, direction, route
- Left, right, up/down, across, along
- To/from
- Clockwise, anticlockwise
- Horizontal, vertical, diagonal
- Translate, translation
- Reflect, reflection
- Co-ordinates
- Straight line, x-axis, y-axis

Find the coordinates of point A.



Annie has reflected the shape in the y-axis. Is her drawing correct? If not explain why.



Planning Links

Power Maths/Maths No Problem/Aspire Maths
 White Rose Scheme of Work:
<https://assets.whiterosemaths.com/new-schemes/Year%206%20Summer%20Block%202%20SOL%20Position%20and%20direction.pdf>

Resources

Gordons Maths Games, Mathletics,
 TTRockstars
 BBC Super Movers
<https://www.bbc.co.uk/teach/super-movers/k-s2-collection/zr4ky9q>