

TRANSLATIONS 1

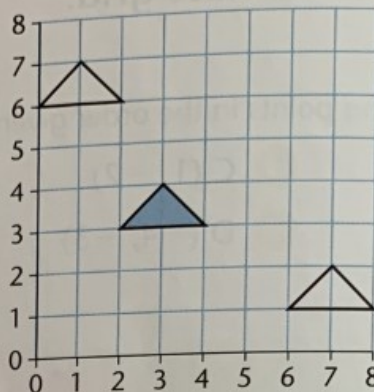
TARGET To draw and translate shapes on the first quadrant of the co-ordinate grid.

To translate a shape means to slide it into a new position. The shape is not rotated (turned).

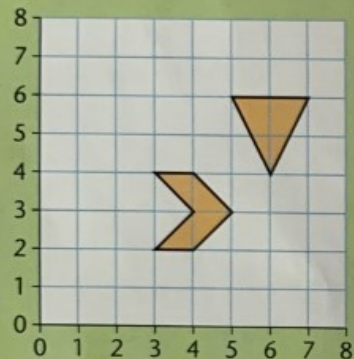
Example

Translate the blue triangle:

- 1 Up 3 Left 2 (U3 L2)
- 2 Right 4 Down 2 (R4 D2)

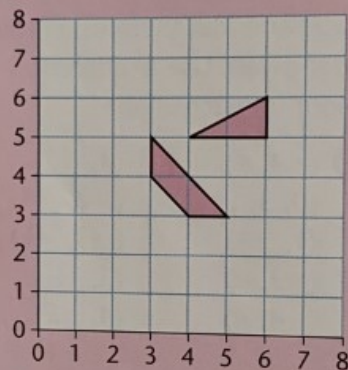


A



- 1 Copy the grid and triangle. Translate the triangle three times.
 - a) U2 (up 2)
 - b) L5 (left 5)
 - c) D3 (down 3)
- 2 Draw a new grid and the hexagon. Translate the hexagon three times.
 - a) R3 (right 3)
 - b) U4 (up 4)
 - c) L2 (left 2)
- 3 Give the co-ordinates for the new position of each of the translated shapes.

B



- 1 Give the co-ordinates of the new position of the above triangle after a translation of:
 - a) L3 D4 c) L4 U1
 - b) R2 U2 d) R1 D3.

Copy the grid and draw the translations to check.
- 2 Predict the co-ordinates of the new position of the above trapezium after a translation of:
 - a) L1 U1 c) R2 D2
 - b) R3 U2 d) L2 D3.

Draw a new grid and translate the trapezium to check.

C

- 1 Draw a new grid. Plot these points. (3, 4) (5, 6) (6, 3) Join them up to make a triangle.
 - a) L3 D2 c) L3 U1
 - b) R2 U2 d) R1 D3

Draw the translations to check.
- 2 Predict the co-ordinates of the triangle after a translation of:
 - a) L3 D2 c) L3 U1
 - b) R2 U2 d) R1 D3

Draw the translations to check.
- 3 Draw a new grid. Plot these points and join them up in the order given. (2, 2) (3, 4) (5, 5) (4, 3) (2, 2)
- 4 Predict the co-ordinates of the rectangle after a translation of:
 - a) R1 D1 c) L2 U2
 - b) R2 U3 d) R3 D2

Draw the translations to check.