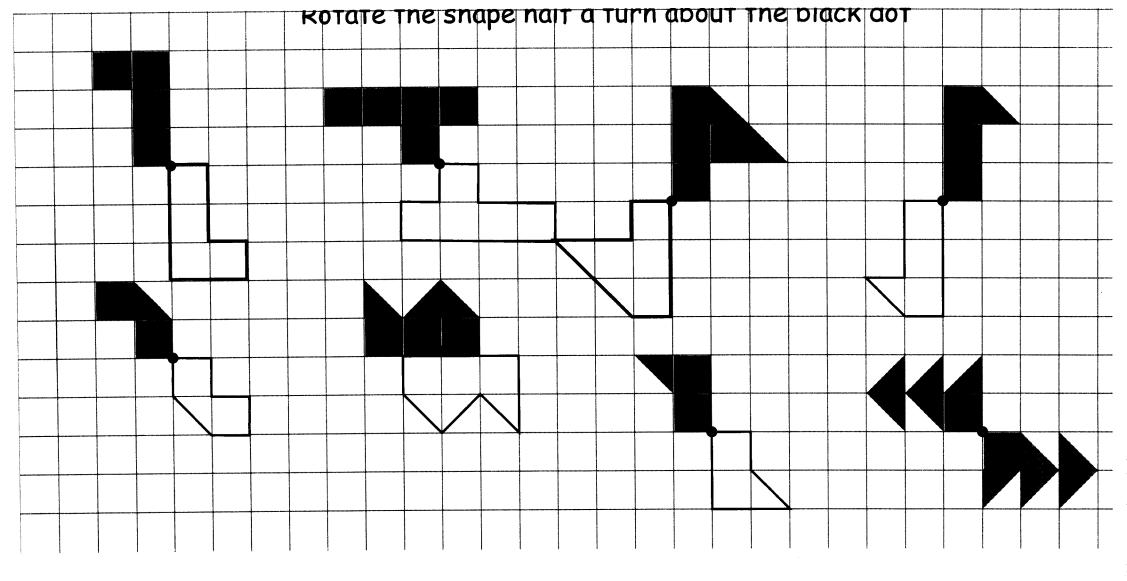
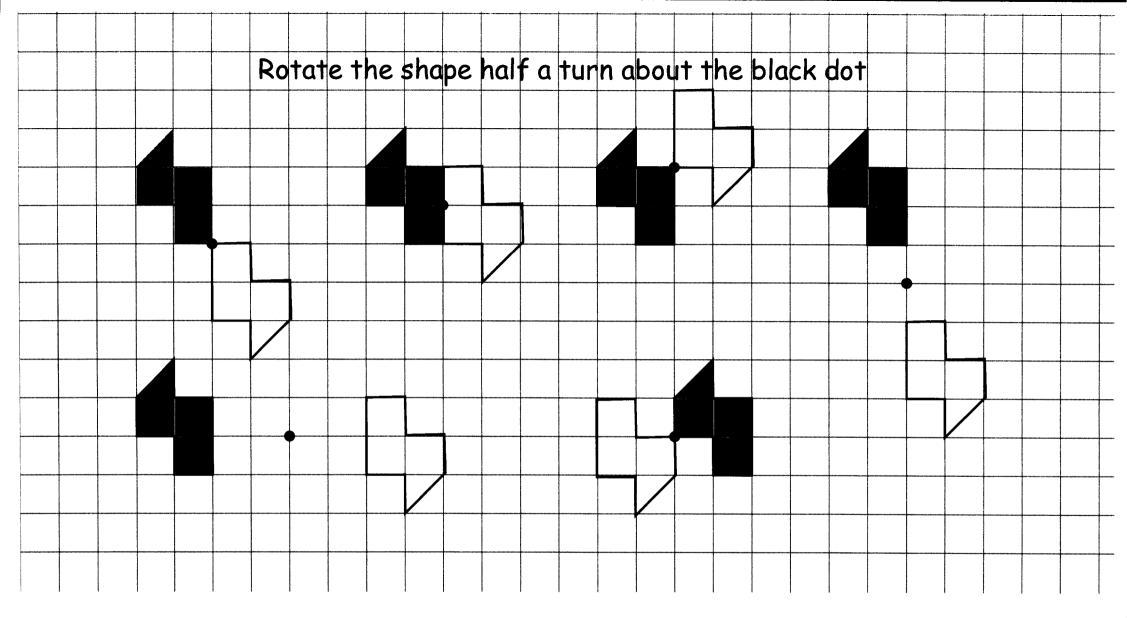
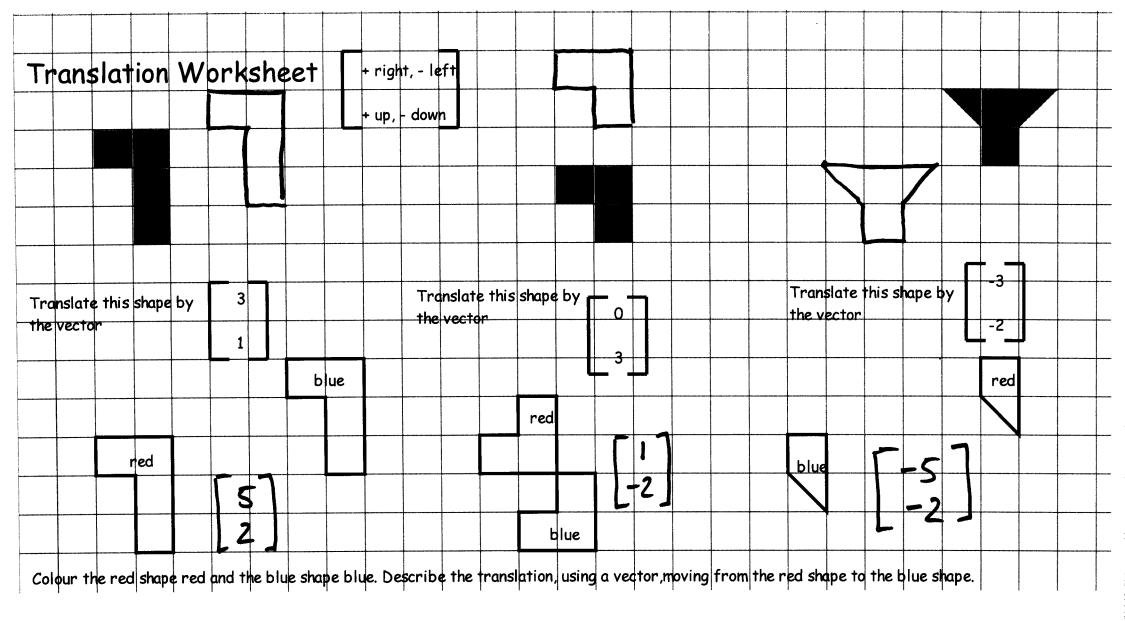
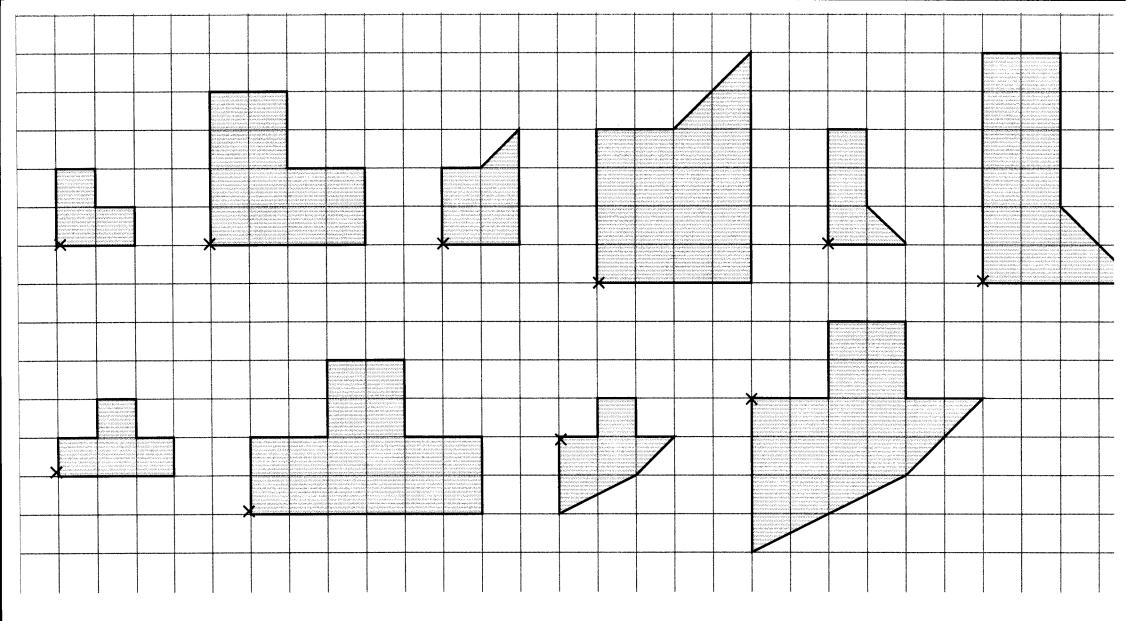
TRANSFORMATIONS

Page	Description
1	Rotations through 180°
2	Rotations through 180°
3	Translations
4	Enlargements
5	Reflections
6	Reflections on a grid with a diagonal mirror line
7	Mixed reflection, rotation and translation on a grid
8	Number of lines of symmetry and order of rotational symmetry
9	Enlargements on a grid with a centre of enlargement and a positive
	whole number scale factor
10	Enlargements on a grid with a centre of enlargement and a negative
	and/or fractional scale factor
11	Mixed reflection, rotation, enlargement and translation on a grid



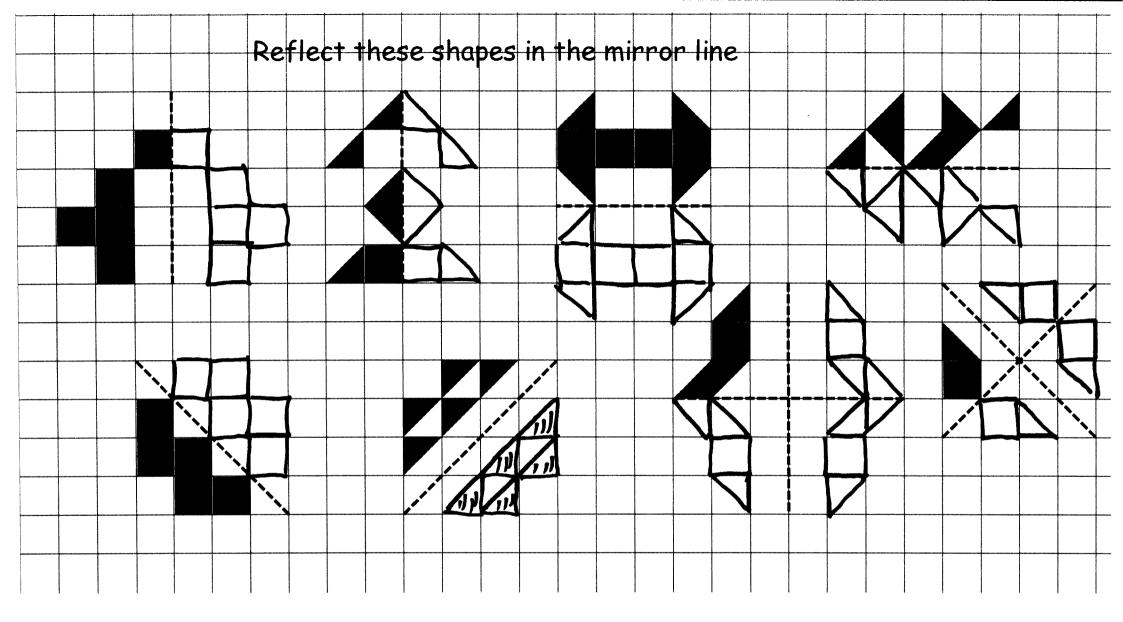




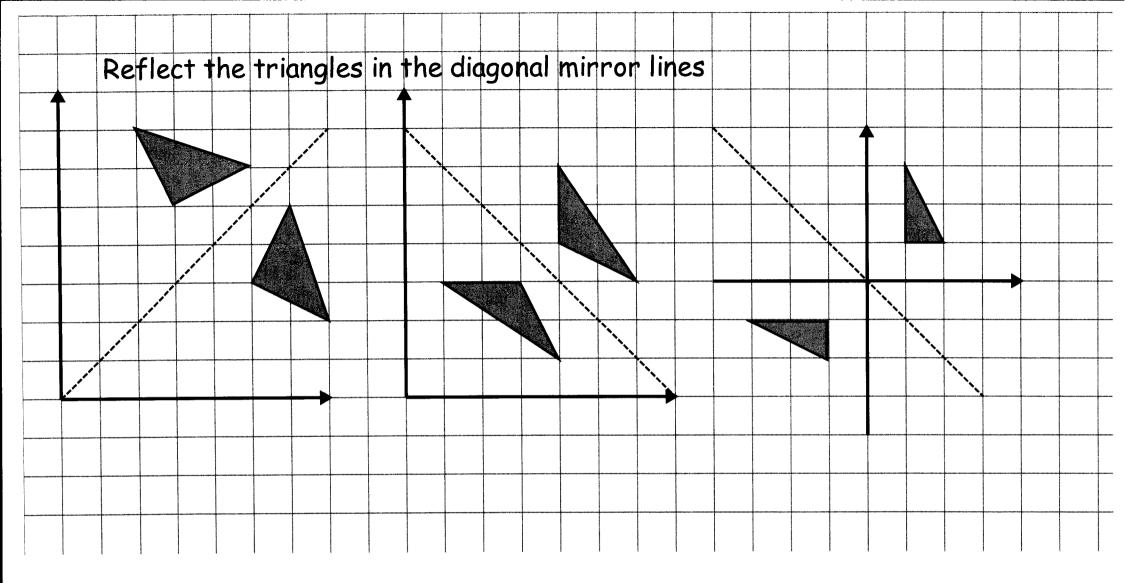


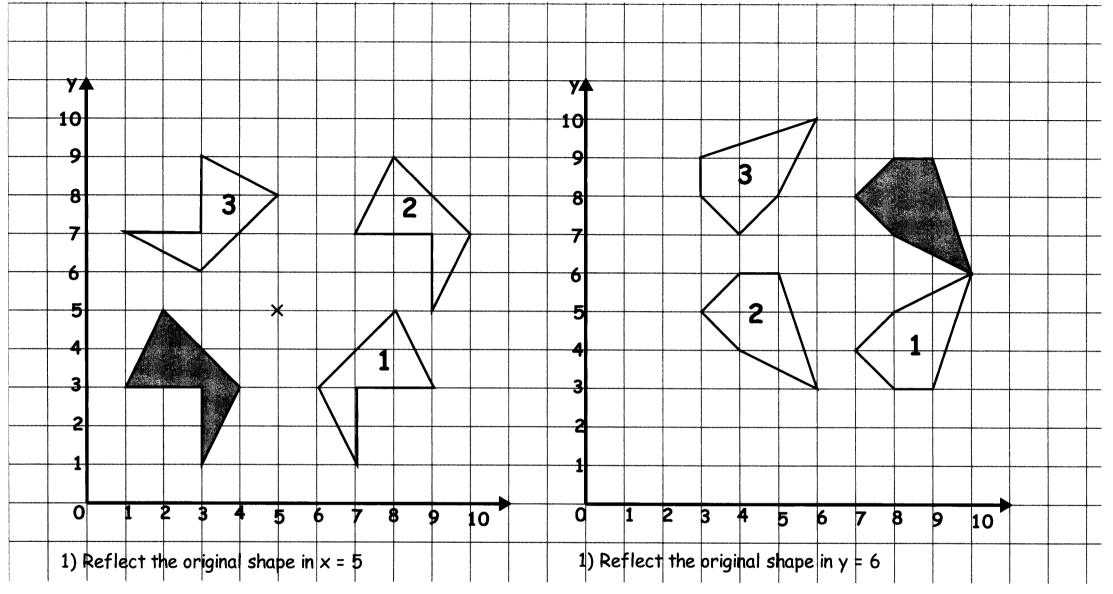
Enlargement - Enlarge each of these shapes by scale factor 2 Start at the "x"







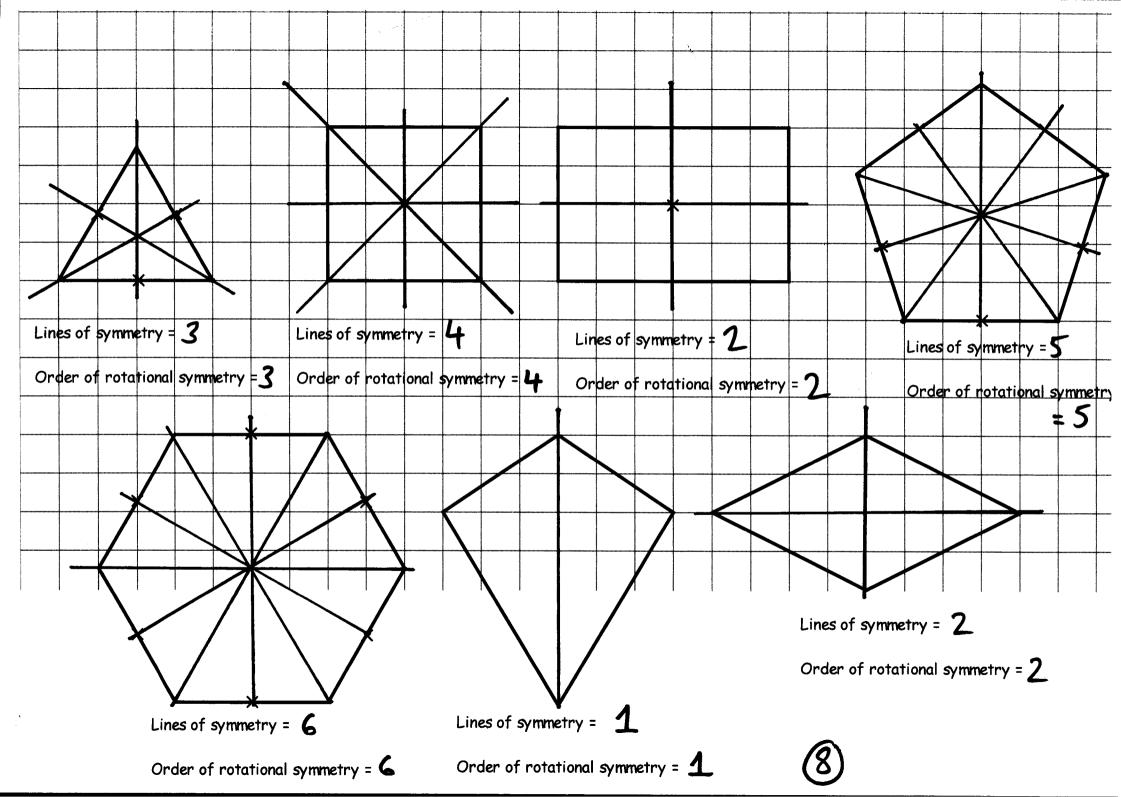


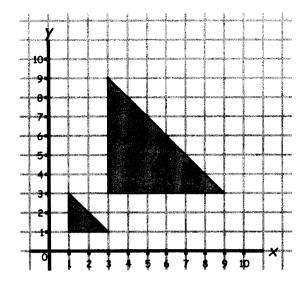


- 2) Translate the original shape 6 right, 4 up.
- 3) Rotate the original shape 90 degrees clockwise about the point (5,5)

- 2) Translate the original shape 4 left, 3 down.
- 3) Rotate the original shape 90 degrees anticlockwise about the point (6,6)

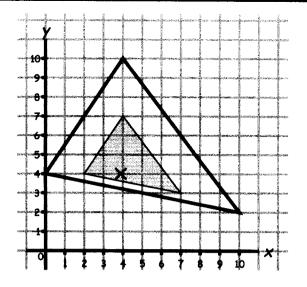






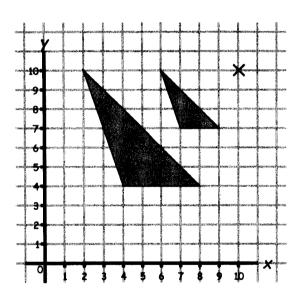
Plot the points (1,1) (3,1) and (1,3). Join them to make triangle.

Enlarge this triangle by a scale factor 3, centre of enlargement (0,0)



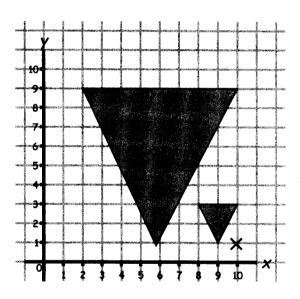
Plot the points (2,4) (7,3) and (4,7). Join them to make triangle.

Enlarge this triangle by a scale factor 2, centre of enlargement (4,4)



Plot the points (6,10) (9,7) and (7,7). Join them to make triangle.

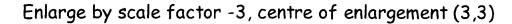
Enlarge this triangle by a scale factor 2, centre of enlargement (10,10)

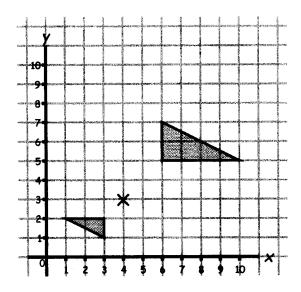


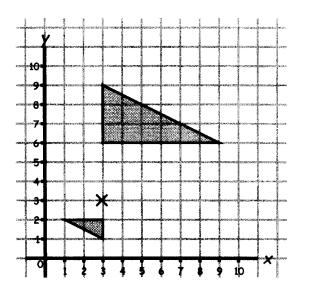
Plot the points (9,1) (10,3) and (8,3). Join them to make triangle.

Enlarge this triangle by a scale factor 4, centre of enlargement (10,1)

Enlarge by scale factor -2, centre of enlargement (4,3)







Enlarge by scale factor -1, centre of enlargement (5,6)

Enlarge by scale factor $-\frac{1}{2}$, centre of enlargement (5,4)

