

7. Rotation of 90° clockwise about G.



G

8. Rotation of 90° clockwise about H.



H

9. Rotation of 270° anticlockwise about I.



I

10. Rotation of half a turn clockwise about J.



J

11. Rotation of 180° clockwise about K.



K

12. Rotation of three quarters of a turn anticlockwise about L.



L

Exercise B

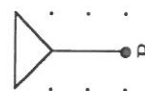
Draw the image position of each shape under the stated transformation. (If necessary trace over the shape using tracing paper, place the point of a compass on the centre of rotation and rotate the tracing paper appropriately to view the rotation.)

1. Rotation of 90° anticlockwise about A.



A

2. Rotation of 90° clockwise about B.



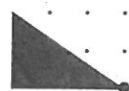
B

3. Rotation of one quarter of a turn clockwise about C.



C

4. Rotation of half a turn clockwise about D.



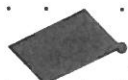
D

5. Rotation of 180° anticlockwise about E.



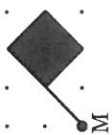
E

6. Rotation of one quarter of a turn anticlockwise about F.




F

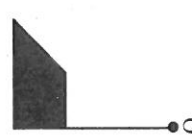
13. Rotation of 90° anticlockwise about M.




14. Rotation of 90° clockwise about N.



15. Rotation of 45° clockwise about O.



16. Rotation of 60° anticlockwise about P.



17. Rotation of 70° clockwise about Q.











18. Rotation of 150° anticlockwise about R.



S 5.3: Visualises and sketches the effect of straightforward ... rotations ... using suitable grids. S 15c.5
S 6.3: Visualises, produces ... rotations ... S 15c.6

19. Complete each set of four diagrams shown below.

	
Initial position	Initial position
	
One quarter turn	One quarter turn
	
Another quarter turn	Another quarter turn
	
Another quarter turn	Another quarter turn

S 5.2: Visualises ... 3D shapes & .. produces conventional mathematical drawings of them. S 15b.5
S 5.3: Visualises & sketches the effect of straightforward .. rotations .. using suitable grids. S 15c.5
S 6.2: Interprets and meets specifications requiring the accurate construction and placement of figures and objects including manipulating shapes and arrangements mentally. S 15b.6