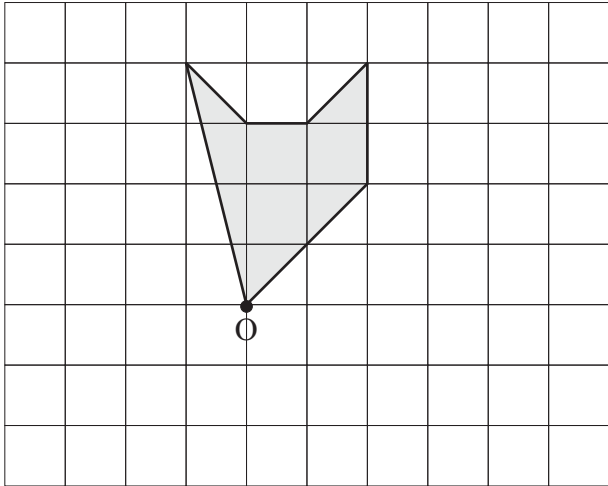
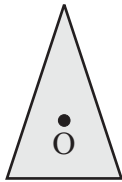
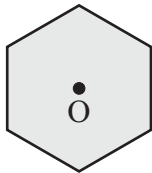
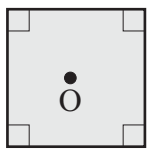


Name: _____

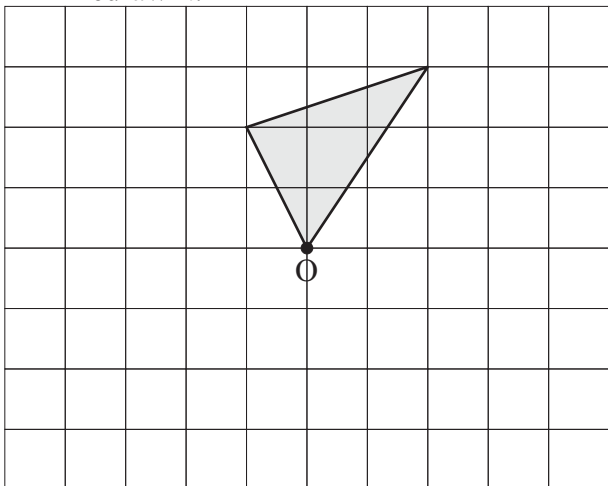
1. Rotate the shape on the grid below by 90° clockwise about O and redraw it.



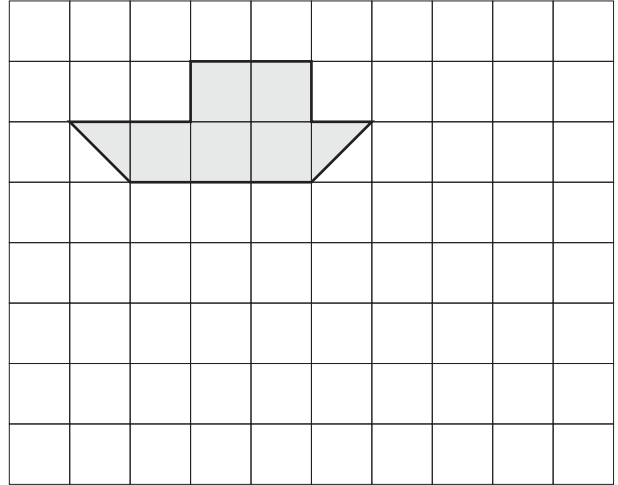
2. What is the minimum angle of clockwise rotation about O for these shapes to appear the same?



3. (a) Rotate the shape below 90° clockwise about O and redraw it.
(b) Rotate the shape by 180° and redraw it.
(c) Rotate the shape by 270° clockwise and redraw it.



4. Translate the shape on the grid below 3 units to the right and 4 units down and redraw it.



5. (a) Translate the shape shown below 3 units to the right, 4 units down and redraw it.
(b) Rotate the shape 90° anticlockwise about O then translate it 6 units down and redraw it.
(c) Rotate the shape 90° clockwise about O then translate it 2 units to the right, 10 units down and redraw it.
(d) Rotate the shape 180° about O then translate it 1 unit left, 6 units down and redraw it.

