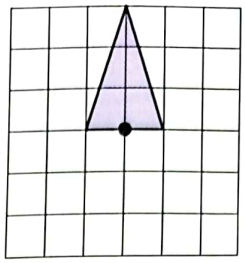
2.5. Rotation

Let's investigate

Look at the isosceles triangle drawn on a grid.



Rotate the triangle 90° clockwise about the ●. Draw the image.

Continue rotating the triangle twice more.

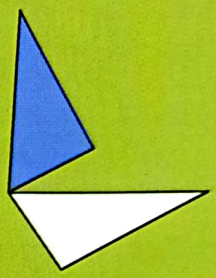
What shape have you made?

Investigate rotating similar shapes you see during the day.

Write a report on your findings.

Look and learn

◆ **Rotation** turns an object about a point.



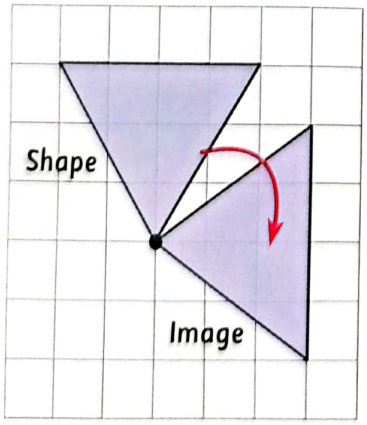
◆ **Clockwise** the same direction as hands on a clock turn.

◆ **Anti-clockwise** the opposite direction as hands on a clock turn.

A rotation is a turn about a point of rotation.

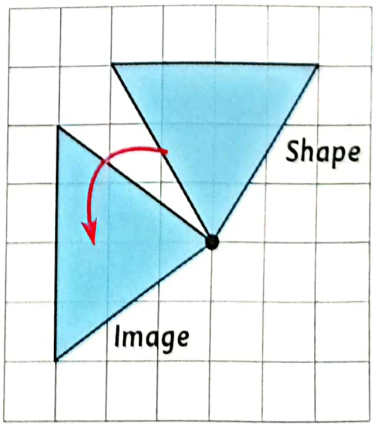
When we show the shape in its new position, we draw a rotation image of the shape.

A shape can rotate clockwise about a vertex V:



This triangle has rotated a $\frac{1}{4}$ turn clockwise.

A shape can rotate anti-clockwise about a vertex V:



This triangle has rotated a $\frac{1}{4}$ turn anti-clockwise.