

### What is the Twelfth Shape?

Experience of copying and extending patterns are pre-requisites for this activity. Similarly, an ability to count to 12 is necessary; if not, alter the numbers. Pupils describe and name each of the three shapes below using the known properties of each. As an extension to this activity, pupils can devise a similar problem for a partner.



*Kitty was playing with some 2-D shapes. She began making a pattern and laid down the first three shapes and the sixth shape.*

*What shape will be the twelfth in the pattern?*

*Talk to your partner about how you might figure this out and what materials you could use to help.*

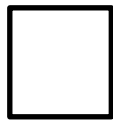
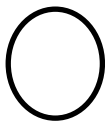
*Do you think the twelfth shape might be a triangle, why?*

*How did you figure it out?*

*Jim please revoice that.*

*Did any pair do it another way?*

*Now record your pattern pictorially.*



1      2      3      4      5      6      7      ...      12



Use of Level B.8 'Maths Trails' in this level will help to consolidate learning.