## Activity 1



Complete the table below by ticking to show which types of transformation triangle ' $a$ ' can use to move to a new location on the board.

| Transform | Rotation | Reflection | Translation | Reflection then Rotation |
| :--- | :--- | :--- | :--- | :--- |
| a to b |  |  |  |  |
| a to c |  |  |  |  |
| a to d |  |  |  |  |

For each transformation, now describe the route. For example 'left 3, down 2' or 'rotate 90 about B3'. If more than one transformation can be used, describe both.

| Transform | Rotation | Reflection | Translation | Reflection then Rotation |
| :--- | :--- | :--- | :--- | :--- |
| a to b |  |  |  |  |
| a to c |  |  |  |  |
| a to d |  |  |  |  |

## Activity 2

Circle all the nets that would form a cube.


## Activity 3

How many differently shaped nets can you make for a cube?
How can you convince someone that you have found them all?
How will record what you have found? It could be helpful to record ones that have worked as well as ones that have not.

Note: Size is not a factor in a net being counted as different. The net outlines should be different rather than the size.


