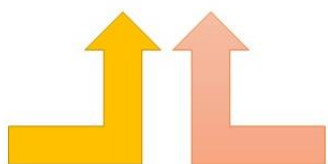**Transformation** means change. In geometry, a transformation is a change in size, position or orientation (direction).
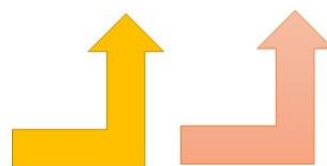
A reflection is a type of transformation of shapes. You can also slide or translate shapes, turn or rotate shapes and even resize or dilate shapes.

A shape has symmetry if it can be divided into two identical pieces where one half is the mirror image of the other. If you drew a line along which the shape could be folded to get two symmetrical halves, that is called the line of symmetry. If something does not have symmetry, it is asymmetrical. A shape can have other types of symmetry if it is identical to another when you slide or turn it.
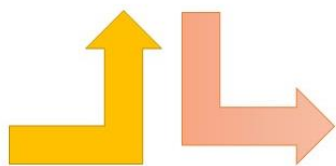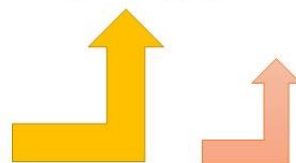
Flip or
Reflection

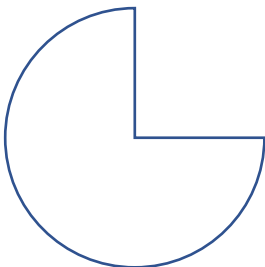Slide or
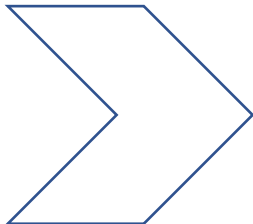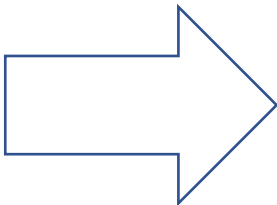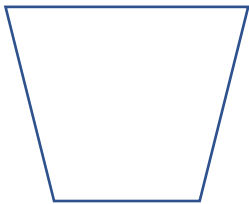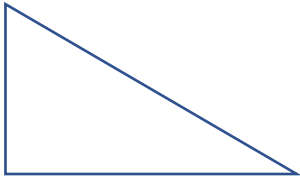Translation

Turn or
Rotation

Shrink/enlarge
or Dilation

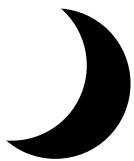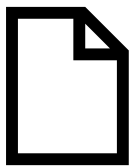Draw the result after a reflection or flip across the line:

A

B

C

D

E

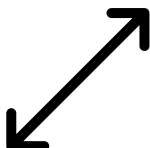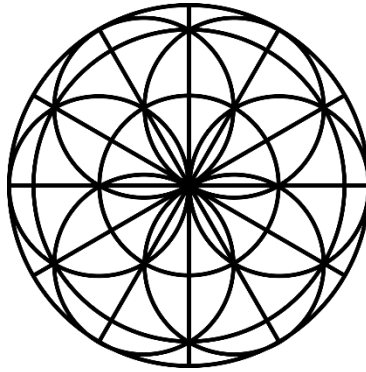Draw the result after a translation or slide to the right:

🌙   **1**

↰   **2**

📄   **3**
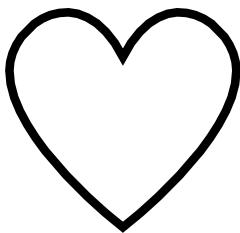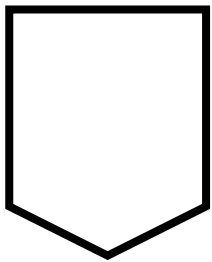
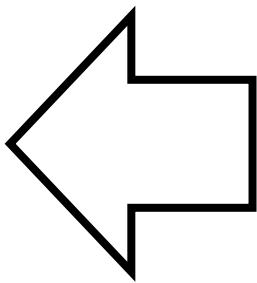🏠   **4**

↗   **5**

Draw the result after a quarter (90º) rotation or turn clockwise:

Draw a picture which is symmetrical.