

TRANSFORMATIONS

A TYPES OF TRANSFORMATIONS

Transformations are ways to move, flip, or turn a shape.

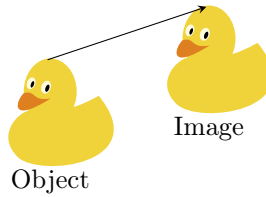
Definition Object and Image

When a transformation is applied to a shape, the input shape is called the **object**. The output shape after the transformation is called the **image**.

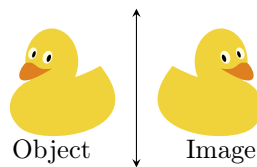
Definition Types of Transformations

There are several types of transformations, including:

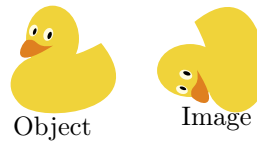
- **Translation:** Slides the shape to a new position without changing its shape, size, or the direction it faces.



- **Reflection:** Flips the shape over a line (like a mirror), creating a mirror image.



- **Rotation:** Turns the shape.



B PATTERNS

Definition Pattern

A **pattern** is created by repeating a transformation (e.g., translation, reflection, rotation) to form a design.

Ex: The following pattern is created by repeating a translation :

