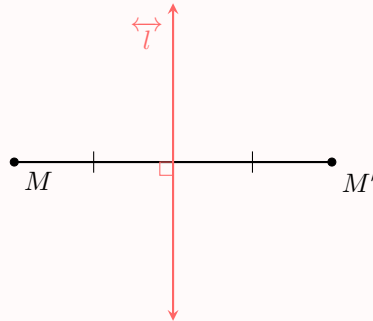


# REFLECTION

## A DEFINITIONS

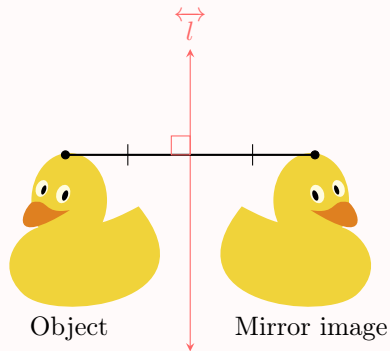
### Definition Reflection of a Point

The **reflection** of point  $M$  over line  $\overleftrightarrow{l}$  is the point  $M'$  such that line  $\overleftrightarrow{l}$  is perpendicular bisector to the segment  $\overline{MM'}$ .



### Definition Reflection

The **reflection** of an object over line  $\overleftrightarrow{l}$  flips all its points, creating a mirror image of the object.



Imagine folding a piece of paper along the axis; the shape on one side of the fold matches its reflection on the other side.

## B AXIS OF SYMMETRY

### Definition Axis of Symmetry

A line is an **axis of symmetry** when the reflection of an object over this line matches the object.

