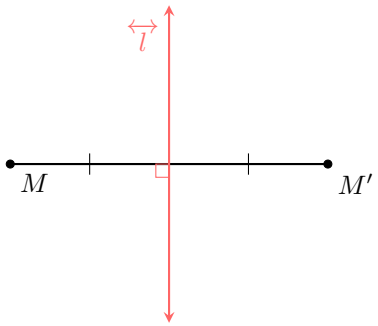
REFLECTION

A DEFINITIONS

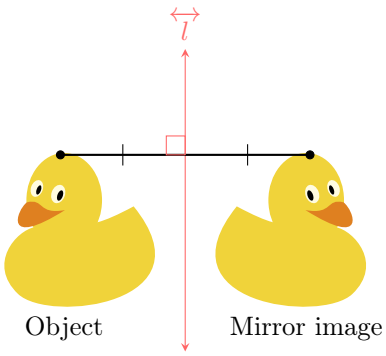
Definition Reflection of a Point

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.