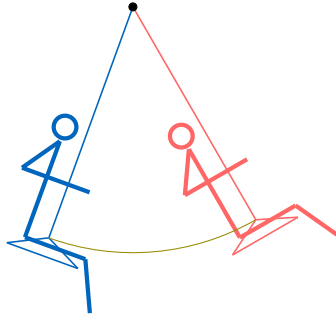


ROTATION

A WHAT IS A ROTATION?

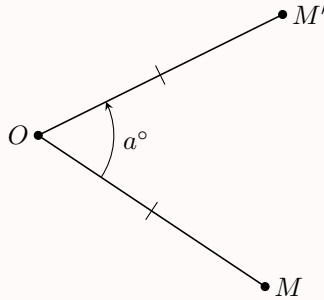
Discover: Juliette is on a swing. As she swings back and forth, she always stays the same distance from the attachment point. Her seat moves along part of a circle.



We say that Juliette is **rotating** about the attachment point, which is the center of the rotation.

Definition **Rotation of a Point**

A **rotation** of point M through an angle a° about center O gives a point M' such that $\angle MOM' = a^\circ$ and $OM = OM'$. The rotation may be clockwise \curvearrowright or counterclockwise \curvearrowleft .



Definition **Rotation**

A **rotation** of an object through an angle a° about center O is the rotation of all its points through the same angle around O . The object keeps the same size and shape; only its position changes.

