

$$\begin{array}{ccc}
 H^*(Q_4) & \xrightarrow{M_1} & H^*(Q_4) \\
 \uparrow & & \nearrow \\
 \text{identity} & 0 & \\
 | & & \\
 1 & &
 \end{array}$$

Explanation: - The diagram has two objects: $H^*(Q_4)$ on top and $H^*(Q_4)$ on the bottom. - There is an arrow labeled M_1 from the top $H^*(Q_4)$ to the bottom $H^*(Q_4)$. - There is an identity map from the bottom $H^*(Q_4)$ to itself, labeled as 1. - There is a diagonal arrow labeled 0 from the bottom $H^*(Q_4)$ to the top $H^*(Q_4)$.

This diagram visually represents the relation $M_1 \cdot 1 = 0$ in $H^*(Q_4)$.