7. The moment of inertia of a point mass is the product of the mass times the square of the distance from the pivot point.

The angular momentum is defined as the product of the moment of inertia times the angular velocity.

L = I  $\omega$ L = (0.18 kg m<sup>2</sup>) (8.0 rad / s) = 1.44 kg m<sup>2</sup> / s