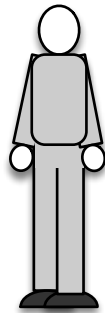
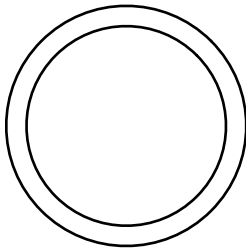
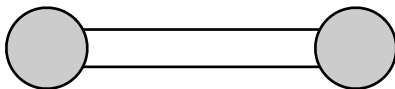


Cycle 22 CM & Rotation

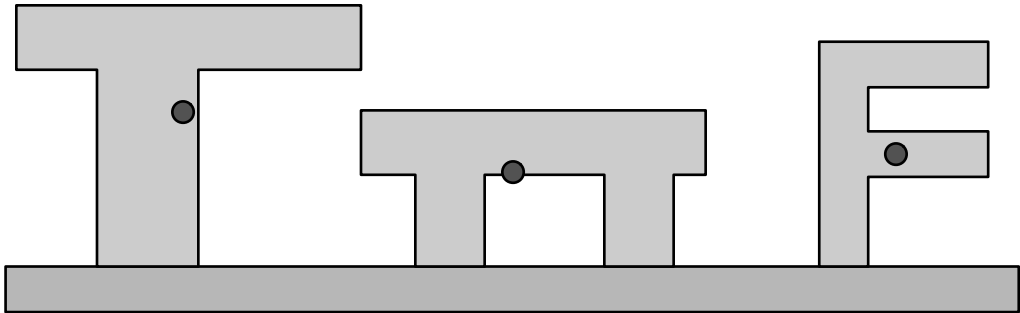
Review

1. State one way of finding the CM of an object.

2. For each object label its center of mass with an x and label it CM.



3. Draw a vertical line through the CM and circle any that would topple over.



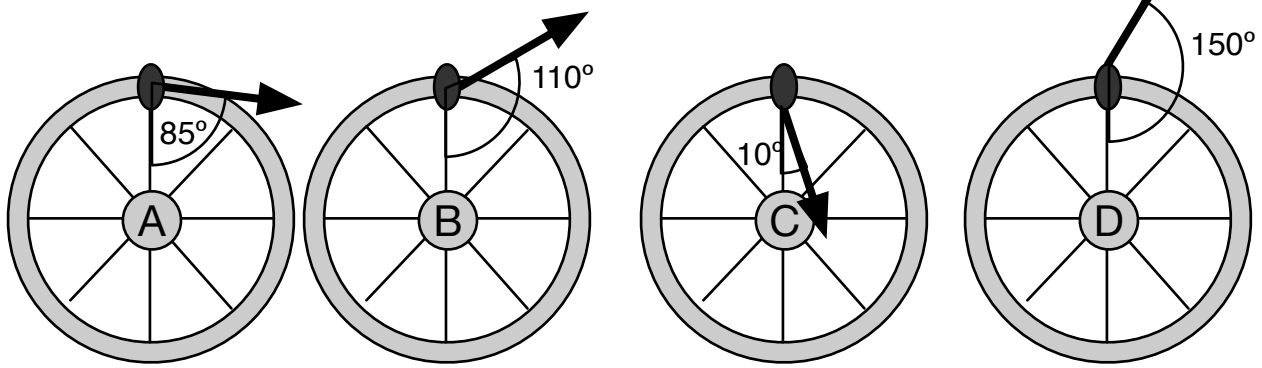
4. Draw a stable shape and label its CM. Draw an unstable shape and label its CM.



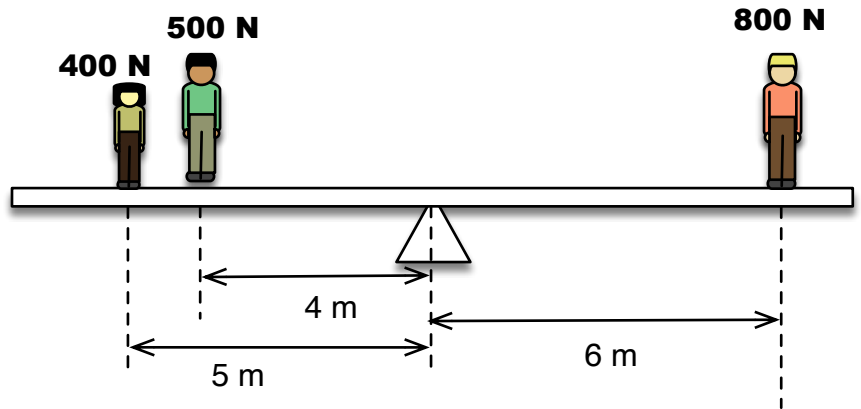
stable

unstable

5. Rank the situations from 1 = most torque to 4 = least torque. All forces are equal



6. Calculate the net Torque.



7. A figure skater goes into a spin. He then pulls his hands inward.

a) What happens to his Rotational Inertia?

- ☐ Gets larger. ☐ Gets smaller. ☐ Stays the same.

b) What happens to his Angular Velocity?

- ☐ Gets larger. ☐ Gets smaller. ☐ Stays the same.

c) What happens to his Angular Momentum?

- ☐ Gets larger. ☐ Gets smaller. ☐ Stays the same.