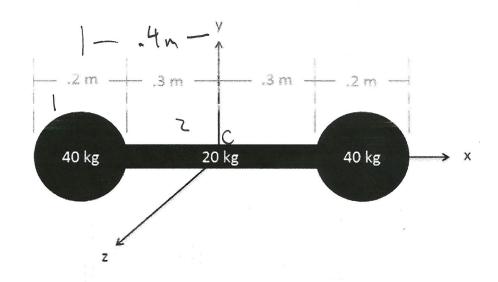
A dumbbell consists of two .2 meter diameter spheres, each with a mass of 40 kg spheres attached to the ends of a .6 meter long, 20 kg slender rod. Determine the mass moment of inertia of the dumbbell about the y axis shown in the diagram.



$$T_{44c1} = \frac{2}{5} mr^{2} = \frac{2}{5} (40 hs) (.1 m)^{2} = .16 hs m^{2}$$

$$T_{44c2} = \frac{1}{12} m l^{2} = \frac{1}{12} (20 hs) (.6 m)^{2} = .6 hs m^{2}$$