

Answer 8

with respect to the center of gravity of the person doing the balancing. As long as the center of gravity falls inside or behind the arc of the base of support upon which the balancing is being done the balancing will be stable. But the center of gravity of the one being balanced must not pass beyond that edge. In all balance events, the performers must have a thorough understanding of the rules of stability, dealing principally with the size of the base and the location of the center of the gravity with respect to the base. There is, however, the factor of rotary momentum to be considered. Rotary momentum is usually necessary to assume balancing positions. Therefore, in the drawings the weight is more easily supported by the top figures because height is easier to hold if the legs of the base are in a vertical position, unless the base figure is standing, then the legs may be widened to spread the area of support.