Instructors Solution Manual

BOOM CHAPTER 1

coord 1-1. (b). Toppling torque
$$T_{\alpha} = F_{\alpha} \times 1.2$$

$$T_w = \text{Restoring torque} = W \times \frac{0.9}{2} = 686 \times 0.45$$

poogo On the verge of toppling
$$T_{m} = T_{m}$$

$$F_a = \frac{686 \times 0.45}{1.2} = 254 \text{ N}$$

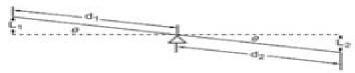
= 57.8 lb

Note that this force is about 6 times greater than required to topple the person with feet together.

ooots 1-2. Referring to Fig. 1.10, and balancing torques around the fulcrum $W \times d_I = F \times d_2$ or $F = W \frac{d_1}{d_2}$

$$\therefore \frac{W}{F} = \frac{d_2}{d_1}$$

pooss Referring to Fig. E. 1.2 sooto



50040 The magnitudes of the two angles of the lever arm with respect to the horizontal are equal therefore,

$$L_1 = d_1 \sin \theta L_2 = d_2 \sin \theta$$
and
$$\frac{L_1}{L_2} = \frac{d_1}{d_2}$$

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