

## Holt Physics

**Problem 8A****TORQUE****PROBLEM**

A beam that is hinged near one end can be lowered to stop traffic at a rail-road crossing or border checkpoint. Consider a beam with a mass of 12.0 kg that is partially balanced by a 20.0 kg counterweight. The counterweight is located 8.750 m from the beam's fulcrum. A downward force of  $1.60 \times 10^3$  N applied over the counterweight causes the beam to move upward. If the net torque on the beam is 29.0 N•m when the beam makes an angle of  $25.0^\circ$  with respect to the ground, how long is the beam's longer section? Assume that the portion of the beam between the counterweight and fulcrum has no mass.

**SOLUTION**

G. GATTAGE

Given:

$$\begin{aligned} m_1 &= 12.0 \text{ kg} \\ m_2 &= 20.0 \text{ kg} \\ d_2 &= 8.750 \text{ m} \\ F_{\text{applied}} &= 1.60 \times 10^3 \text{ N} \\ \tau_{\text{net}} &= 29.0 \text{ N}\cdot\text{m} \\ \theta &= 90.0^\circ - 25.0^\circ = 65.0^\circ \\ g &= 9.81 \text{ m/s}^2 \end{aligned}$$

Unknown:

$$x = ?$$

Diagram:



G. PLAIN

Choose the sign(s) as direction. Apply the definition of torque to each force and add up the individual torques.

$$\tau = F d (\sin \theta)$$

$$\tau_{\text{net}} = \tau_1 + \tau_2 + \tau_3$$

where  $\tau_1$  = counterclockwise torque produced by applied force =  $F_{\text{applied}} d_2 (\sin \theta)$

$\tau_2$  = clockwise torque produced by weight of beam

$$= -m_1 g \left( \frac{x}{2} \right) (\sin \theta)$$

$\tau_3$  = counterclockwise torque produced by counterweight

$$= m_2 g d_2 (\sin \theta)$$

$$\tau_{\text{net}} = F_{\text{applied}} d_2 (\sin \theta) - m_1 g \left( \frac{x}{2} \right) (\sin \theta) + m_2 g d_2 (\sin \theta)$$

Note that the clockwise torque is negative, while the counterclockwise torques are positive.

# Holt Physics Problem 8a Torque

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