

Holt Physics

Problem 4D**OVERCOMING FRICTION****PROBLEM**

In 1988, a very large telephone constructed by a Dutch telecommunications company was demonstrated in the Netherlands. Suppose this telephone is towed a short distance by a horizontal force equal to 8670 N, so that the telephone's net acceleration is 1.30 m/s^2 . Given that the coefficient of kinetic friction between the phone and the ground is 0.120, calculate the mass of the telephone.

SOLUTION**1. DEFINE**

Given: $F_{\text{applied}} = 8670 \text{ N}$
 $a_{\text{net}} = 1.30 \text{ m/s}^2$
 $\mu_k = 0.120$
 $g = 9.81 \text{ m/s}^2$

Unknown: $m = ?$

2. PLAN

Choose the equation(s) or situation: Apply Newton's second law to describe the forces acting on the telephone.

$$F_{\text{net}} = ma_{\text{net}} = F_{\text{applied}} - F_k$$

The frictional force, F_k , depends on the normal force, F_n , exerted on the telephone. For a horizontal surface, the normal force equals the telephone's weight.

$$F_k = \mu_k F_n = \mu_k (mg)$$

Substituting the equation for F_k into the equation for F_{net} provides an equation with all known and unknown variables.

$$ma_{\text{net}} = F_{\text{applied}} - \mu_k mg$$

Rearrange the equation(s) to isolate the unknown(s):

$$ma_{\text{net}} + \mu_k mg = F_{\text{applied}}$$

$$m(a_{\text{net}} + \mu_k g) = F_{\text{applied}}$$

$$m = \frac{F_{\text{applied}}}{a_{\text{net}} + \mu_k g}$$

3. CALCULATE

Substitute the values into the equations and solve:

$$m = \frac{8670 \text{ N}}{1.30 \text{ m/s}^2 + (0.120)(9.81 \text{ m/s}^2)}$$

$$m = \frac{8670 \text{ N}}{1.30 \text{ m/s}^2 + 1.18 \text{ m/s}^2}$$

$$m = \frac{8670 \text{ N}}{2.48 \text{ m/s}^2} = \boxed{3.50 \times 10^3 \text{ kg}}$$

4. EVALUATE

Because the mass is constant, the sum of the acceleration terms in the denominator must be constant for a constant applied force. Therefore, the net acceleration decreases as the coefficient of friction increases.

Holt 4d Practice Answers

JG Myers



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