

1. What is the distance between a 128 kg object and a 136 kg object if the gravitational force of attraction between them is  $6.582 \times 10^{-10}$  N?

$$6.582 \times 10^{-10} = \frac{G(128)(136)}{r^2}$$

$$r^2 = \frac{G(128)(136)}{6.582 \times 10^{-10}}$$

$$r^2 = 1764.07$$

$$r = 42 \text{ m}$$

2. The force of gravity between two objects is 1200 N when the objects are 60 m apart. Find the force of gravity between the objects when they are 480 m apart.

Inverse square law:

Objects further apart,  $F_g \downarrow$

$480 \div 60 = 8 \times$  further apart, so  $F_g$  is  $8^2 = 64 \times$  smaller

$$1200 \div 64 = 18.8 \text{ N}$$

3. Two students are on a skateboards and push away from each other. A 48 kg student accelerates away at  $2.6 \text{ m/s}^2$ . Find the acceleration of the other student if their mass is 32 kg. Action-reaction forces

$$F_{\text{net}} = ma$$

$$F_{\text{net}} = 48(2.6)$$

$$F_{\text{net}} = 124.8 \text{ N}$$

$F_{\text{net}}$  is the same for both students

$$F_{\text{net}} = ma$$

$$124.8 = 32a$$

$$a = 3.9 \text{ m/s}^2$$

4. A 42.0 N force is applied to a 6.00 kg block but it only accelerates at  $5.50 \text{ m/s}^2$ . Determine both the force and the coefficient of friction.



$$F_{\text{net}} = ma$$

$$42 - F_f = 6(5.5)$$

$$42 - F_f = 33$$

$$F_f = 9.0 \text{ N}$$

$$F_f = \mu F_N$$

$$9.0 = \mu(58.8)$$

$$\mu = 0.153$$

5. A go-cart, traveling at  $65 \text{ km/h}$ , skids to a stop. If the coefficient of friction between the tires and the asphalt is 0.59, how far does the go-cart skid?



no forwards force!

$$F_{\text{net}} = ma$$

$$F_f = ma$$

$$\mu F_N = ma$$

$$\mu mg = ma$$

$$\mu g = a$$

$$0.59(9.8) = a$$

$$a = 5.782$$

$$v_f^2 - v_i^2 = 2ad$$

$$v_f = 0$$

$$d = ?$$

$$a = -5.782$$

$$t = x$$

$$v_f^2 - v_i^2 = 2ad$$

$$d = 28.2 \text{ m}$$

# Holt Physics Chapter 9 Answers

**Michael Seilmaier**



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