

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!

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

$$F_f = ma$$

$$\mu F_n = ma$$

$$\mu mg = ma$$

$$\mu g = a$$

$$0.59(9.8) = a$$

$$a = 5.782$$

$$v_i = 18.06$$

$$v_f = 0$$

$$d = ?$$

$$a = -5.782$$

$$t = x$$

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

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

# Holt Physics Answer Key Chapter 5

**William Bolton**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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The book opens with a description of the smooth transition from Newtonian to Einsteinian behaviour from electrons as their energy is progressively increased and this leads directly to the relativistic expressions for mass momentum and energy of a particle

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