

1. What is the distance between a 128 kg object and a 136 kg object if the gravitational force of attraction between them is 6.582×10^{-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 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_{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 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 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 Answers Chapter 16

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