

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

$$F_{net} = ma$$

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

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

F_{net} is the same
for both students

$$F_{net} = ma$$

$$124.8 = 32a$$

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

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.



$$F_{net} = ma$$

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

$$42 - F_f = 33$$

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

$$F_f = \mu F_N$$

$$9.0 = \mu(58.8)$$

$$\mu = 0.153$$

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!

$$F_{net} = ma$$

$$F_f = ma$$

$$\mu F_N = ma$$

$$\mu mg = ma$$

$$\mu g = a$$

$$0.59(9.8) = a$$

$$a = 5.782$$

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

$$v_f = 0$$

$$d = ?$$

$$a = -5.782$$

$$t = x$$

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

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

Holt Physics Chapter 7 Mixed Review Answers

RD Boyd



Holt Physics Chapter 7 Mixed Review Answers:

Holt Physics Chapter 7 Mixed Review Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Holt Physics Chapter 7 Mixed Review Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence.

Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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