

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 Concept Review Answers 14

**O García**



## Holt Physics Concept Review Answers 14:

**Progress in Physics, vol. 1/2012** Dmitri Rabounski, Florentin Smarandache, Larissa Borissova, The Journal on Advanced Studies in Theoretical and Experimental Physics including Related Themes from Mathematics The Independent Leonard Bacon, Joseph Parrish Thompson, Richard Salter Storrs, Joshua Leavitt, Henry Ward Beecher, Theodore Tilton, Henry Chandler Bowen, William Hayes Ward, Hamilton Holt, Fabian Franklin, Harold de Wolf Fuller, Christian Archibald Herter, 1909 *Science Spectrum* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03 **Books in Print Supplement**, 2002 Applied Mechanics Reviews, 1965 *The Publishers Weekly*, 1916 **Children's Books in Print** R R Bowker Publishing, Bowker, 1999-12 **Farmer's Advocate**, 1912 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1949 Includes Part 1A Books and Part 1B Pamphlets Serials and Contributions to Periodicals Educational Times, 1921 The Bookseller, Newsdealer and Stationer, 1907 *Christian Register and Boston Observer...*, 1898 The Problem of Evolution John N. Deely, Raymond J. Nogar, 1972 **The British National Bibliography** Arthur James Wells, 1972 **Scientific American**, 1911 Neuromyths Tracey Tokuhama-Espinosa, 2018-09-25 A guide to the science behind the art of teaching Not every teaching method touted as brain friendly is supported by research findings and misconceptions about the brain have the capacity to harm rather than help In her new book Tracey Tokuhama Espinosa untangles scientific fact from pedagogical fiction debunking dozens of widely held beliefs about the brain that have made their way into the education literature In ten central chapters on topics ranging from brain structure to classroom environments the text traces the origins of common neuromyths from categorizing individuals as right brained or left brained to prevailing beliefs about multitasking or the effects of video games and corrects the record with the most current state of knowledge Rather than offering pat strategies Tokuhama Espinosa challenges teachers curious about the brain to become learning scientists and supplies the tools needed to evaluate research and put it to use in the classroom *Journal of Education*, 1891 **Another Science Fiction** Megan Shaw Prelinger, 2010 Satellites in the sky The human body in space Spacecraft form and function The landscape of space Mid century modern space **Mathematical Reviews**, 2004 British Education Index, 1996

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