

Name: _____

Hour: _____

Problems: Show all work for the following problems and use correct units

10. A man hits a golf ball (0.3 kg) which accelerates at a rate of 15 m/s^2 . What amount of force acted on the ball?

$$m = 0.3 \text{ kg}$$

$$a = 15 \text{ m/s}^2$$

$$F = ?$$

$$F = ma$$

$$F = (0.3 \text{ kg})(15 \text{ m/s}^2)$$

$$\boxed{F = 4.5 \text{ N}}$$

11. You give your brother on a sled a push down a hill. The mass of the sled and your brother is 40 kg and the acceleration is 5 m/s^2 . What force did you push with?

$$200 \text{ N}$$

$$m = 40 \text{ kg}$$

$$a = 5 \text{ m/s}^2$$

$$F = ?$$

$$F = ma$$

$$F = (40 \text{ kg})(5 \text{ m/s}^2)$$

$$\boxed{F = 200 \text{ N}}$$

12. A car goes from 20 m/s to 40 m/s in 5 seconds. What is the acceleration?

$$4 \text{ m/s}^2$$

$$v_i = 20 \text{ m/s}$$

$$a = \frac{v_f - v_i}{t}$$

$$v_f = 40 \text{ m/s}$$

$$a = \frac{40 \text{ m/s} - 20 \text{ m/s}}{5 \text{ s}} = \frac{20 \text{ m/s}}{5 \text{ s}} = 4 \text{ m/s}^2$$

$$t = 5 \text{ s}$$

13. A hit baseball goes from 30 m/s to rest in the outfield after 2.2 seconds. What was its acceleration?

$$-13.64 \text{ m/s}^2$$

$$v_i = 30 \text{ m/s}$$

$$v_f = 0 \text{ m/s}$$

$$t = 2.2 \text{ s}$$

$$a = ?$$

$$a = \frac{v_f - v_i}{t}$$

$$a = \frac{0 \text{ m/s} - 30 \text{ m/s}}{2.2 \text{ s}} = \frac{-30 \text{ m/s}}{2.2 \text{ s}} = -13.64 \text{ m/s}^2$$

14. What is the mass of an object if a 20 N force gives an acceleration of 15 m/s^2 ?

$$1.33 \text{ kg}$$

$$m = ?$$

$$F = 20 \text{ N}$$

$$a = 15 \text{ m/s}^2$$

$$F = ma$$

$$\frac{20 \text{ N}}{15 \text{ m/s}^2} = \frac{m \cdot 15 \text{ m/s}^2}{15 \text{ m/s}^2}$$

$$m = 1.33 \text{ kg}$$

15. How long has an object been falling if its velocity is 48 m/s?

$$4.8 \text{ s}$$

$$t = ?$$

$$a = 9.8 \text{ m/s}^2$$

$$v_f = 48 \text{ m/s}$$

$$v_i = 0 \text{ m/s}$$

$$a = \frac{v_f - v_i}{t}$$

$$t (9.8 \text{ m/s}^2) = \frac{48 \text{ m/s} - 0 \text{ m/s}}{t} t$$

$$\frac{t (9.8 \text{ m/s}^2) = 48 \text{ m/s}}{9.8 \text{ m/s}^2} \quad \frac{48 \text{ m/s}}{9.8 \text{ m/s}^2}$$

$$\boxed{t = 4.8 \text{ s}}$$

16. What is the velocity of a rock that falls off a cliff for 3.8 seconds?

$$38 \text{ m/s}$$

$$v_f = ?$$

$$t = 3.8 \text{ s}$$

$$a = 9.8 \text{ m/s}^2$$

$$v_i = 0 \text{ m/s}$$

$$3.8 \text{ s} (9.8 \text{ m/s}^2) = \frac{v_f - 0 \text{ m/s}}{3.8 \text{ s}} 3.8 \text{ s}$$

$$a = \frac{v_f - v_i}{t}$$

$$\boxed{v_f = 38 \text{ m/s}}$$

17. How high is a cliff if it takes a ball dropped from it 2.24 seconds to hit the ground below?

$$25.09 \text{ m}$$

$$d = ?$$

$$t = 2.24 \text{ s}$$

$$v_i = 0 \text{ m/s}$$

$$a = 9.8 \text{ m/s}^2$$

$$d = \frac{1}{2} a t^2$$

$$d = \frac{1}{2} (9.8 \text{ m/s}^2) (2.24 \text{ s})^2$$

$$d = 4.9 \text{ m/s}^2 (5.0176 \text{ s}^2)$$

$$\boxed{d = 25.09 \text{ m}}$$

Answers Physical Science If8767 Calculating Voltage

Tom Henry



Answers Physical Science If8767 Calculating Voltage:

Reviewing **Answers Physical Science If8767 Calculating Voltage**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Answers Physical Science If8767 Calculating Voltage**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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