

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?

$$\begin{aligned} m &= 0.3 \text{ kg} \\ a &= 15 \text{ m/s}^2 \\ F &= ? \end{aligned}$$

$$\begin{aligned} F &= ma \\ F &= (0.3 \text{ kg})(15 \text{ m/s}^2) \\ \boxed{F &= 4.5 \text{ N}} \end{aligned}$$

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?

$$\begin{aligned} m &= 40 \text{ kg} \\ a &= 5 \text{ m/s}^2 \\ F &= ? \end{aligned}$$

$$\begin{aligned} F &= ma \\ F &= (40 \text{ kg})(5 \text{ m/s}^2) \\ \boxed{F &= 200 \text{ N}} \end{aligned}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$a = ?$$

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

$$m = ?$$

$$F = ma$$

$$1.33 \text{ kg}$$

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

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

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

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

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

$$t = ?$$

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

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

$$4.8 \text{ s}$$

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

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

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

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

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

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

$$v_f = ?$$

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

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

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

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

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

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

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

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

$$25.09 \text{ m}$$

$$d = ?$$

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

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

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

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

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

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

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

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