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## Falling objects worksheet answers

its way back. (c) Calculate its acceleration while in contact with the floor if the contact lasts 3.50 ms ( $3.50\text{ m} \times 10^{-3}$ ). (d) How many balls compress during his collision with the floor, assert the floor is really rigid? Free falls: the state of movement resulting from gravity force is only accelerated due to gravity: object acceleration due to gravity 1. (a)  $y_1 = 6.28\text{ m}$ ;  $v_1 = 10.1\text{ m/s}$  (b)  $y_2 = 10.1\text{ m}$ ;  $v_2 = 5.20\text{ m/s}$  (c)  $y_3 = 11.5\text{ m}$ ;  $v_3 = 0.300\text{ m/s}$  (d)  $y_4 = 10.4\text{ m}$ ;  $v_4 = -4.60\text{ m/s}$  3.  $v_0 = 4.95\text{ m/s}$  5. a)  $a = -9.80\text{ m/s}^2$ ;  $v_0 = 13.0\text{ m/s}$ ;  $y_0 = 0\text{ m}$  (b)  $v = 0\text{ m/s}$ . Unknown is the distance  $y$  over the trajectory, where the velocity is zero. Use the equation 
$$[v]^2 = [v_0]^2 + 2a\left(y - y_0\right)$$
 because it contains all known values except for  $y$ , so that we can settle for  $y$ . Resolving to  $y$  give the Dolphins measure about 2 meters in length and can jump a few times their length out of the water, so this is a reasonable result. (c) 2.65 s 7. (a) 8.26 m (b) 0.717 9. 1.91 s 11. (a) 94.0 m (b) 3.13 13. (a) -70.0 -70.0 (down) (b) 6.10 s 15. (a) 19.6 m (b) 18.5 m 17. (a) 305 m (b) 262 m, -29.2 m/s (c) 8.91 s

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