

6. A 2.5 -g (0.0025 kg) bullet traveling at 350 m/s hits a tree and slows uniformly to a stop while penetrating a distance of 12 cm into the tree's trunk. What force was exerted on the bullet in bringing it to rest?

$$KE = W_{\text{tree}}$$

$$\frac{1}{2} m v^2 = F \cdot d$$

$$\frac{1}{2} (.0025) (350)^2 = F (.12)$$

$$F = 1276 \text{ N} \approx 1300 \text{ N}$$

7. A 150-g baseball reaches a batter with a speed of 25 m/s. After it has been struck, it leaves the bat at 35 m/s in the opposite direction. If the ball was in contact with the bat for .001 s, find the average force exerted on it during this period. (9 kN)

$$F = \frac{m(v_f - v_i)}{t} = \frac{0.150 (35 - -25)}{.001} = 9000 \text{ N}$$

8. A 35 g superball hits a wall at 10.0 m/s. It bounces off the wall with a speed of 8.0 m/s and the ball is in contact with the wall for 0.20 s, what is the average force exerted by the wall on the ball? (3.2 N)

0 → 10.0 m/s      - 8.0 m/s ←



$$F = \frac{m(v_f - v_i)}{t} = \frac{.035 (-8.0 - 10.0)}{.2} = -3.2 \text{ N}$$

9. A 30.0 kg girl who is running at 3.0 m/s jumps on a stationary 10.0 kg sled on a frozen lake. How fast does the sled then move? (2.3 m/s)

30.0 kg  $v = 3.0 \text{ m/s}$       10.0 kg  $v = 0$



$$P_i = P_f$$

$$(30.0)(3.0) + 10(0) = (30.0 + 10.0) v$$

$$v = 2.25 \approx 2.3 \text{ m/s}$$

10. A 0.50 kg clay ball is rolls down a 0.30 m ramp.  
a. What is the velocity of the ball at the bottom of the ramp?

$y = 0.30 \text{ m}$



$$PE_g = KE$$

$$mgy = \frac{1}{2} mv^2$$

$$(0.50)(9.8)(.3) = \frac{1}{2} (.50)(v)^2$$

$$1.47 = .25 v^2$$

$$v^2 = 5.88$$

$$v = 2.42 \text{ m/s}$$

- b. Then the ball rolls across a level table where it collides inelastically with a stationary toy car of mass 1.5 kg. What is the velocity of the clay-car combo?

0.50 kg  $v = 2.42$       1.5 kg  $v = 0$



$$P_i = P_f$$

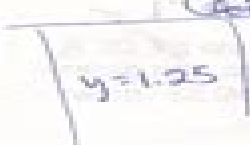
$$(0.50)(2.42) + 0 = (0.50 + 1.5) v$$

$$1.21 = 2.0 v$$

$$v = .606 \text{ m/s}$$

- c. The clay-car combo then falls off the 1.25 m high table. What is the velocity of the clay-car combo just before it hits the floor?

$y = 1.25$



$$KE + PE = KE$$

$$\frac{1}{2} (m) v^2 + mgy = \frac{1}{2} m v^2$$

$$\frac{1}{2} (2.0) (.606)^2 + (2.0)(9.8)(1.25) = \frac{1}{2} (2.0) v^2$$

$$.3675 + 24.5 = \frac{1}{2} v^2$$

$$v = \sqrt{49.3675} = 7.0 \text{ m/s}$$

(not 15.6642)

# Answers Of Exemplar Physical Science 2013

**Peter Harrison**



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