

Motion in One Dimension

Math Skills**Falling Objects**

A juggler throws a ball straight up into the air. The ball remains in the air for a time Δt before it lands back in the juggler's hand.

$$\Delta y = v_i(\Delta t) + \frac{1}{2}a(\Delta t)^2$$

$$v_f = v_i + a(\Delta t)$$

$$v_f^2 = v_i^2 + 2a\Delta y$$

1. Answer the following questions in terms of Δt and g .

a. What is the acceleration of the ball during the entire time the ball is in the air?

b. With what speed did the juggler throw the ball into the air? (Hint: What is the total displacement of the ball during the time it is in the air?)

c. How much time elapsed before the ball reached its maximum height?

d. How high above the point of release did the ball rise?

2. Assume that the ball was in the air for 2.4 s. Answer the following questions:

a. What is the acceleration of the ball during the entire time the ball is in the air?

b. With what speed did the juggler throw the ball into the air?

c. How much time elapsed before the ball reached its maximum height?

Holt Physics Math Skills Falling Objects Answers

K Morrison



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final ...