

Physics Test Review
Accelerated & Projectile Motion

Name: _____
Date: _____ Block: _____

Horizontal Motion Equation:

$$V_x = \frac{\Delta x}{t}$$

Horizontal Projectiles:

Vertical Motion Equations:

$$\Delta x_y = \frac{1}{2}at^2 + v_{iy}t$$

$$v_{fy}^2 = v_{iy}^2 + 2a\Delta x_y$$

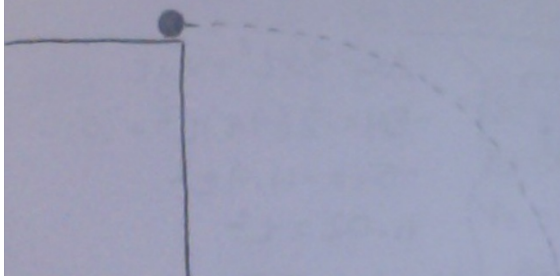
$$v_{fy} = at + v_{iy}$$

Hints for solving problems:

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

$$v_{iy} = 0 \text{ m/s}$$

$$\Delta x_y = -\# \text{ (falling)}$$



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1) b, d, e, f, g, h

8) 4.87 m/s

2) 5.05 s, 454.6 m

9) 7.62 m/s

3) -14 m/s

10) 5.66 m

4) 39.16 m/s

11) 3.78 s, -37.04 m/s

5) 47.86 m

12) 2 m/s², 75 m

6) 5.56 m/s

13) 12 m/s, 24 m

7) 0.66 m/s

14) 7.30 m/s