

Name _____
Honors Physics
Period _____



Date _____
Vectors/Projectiles WS #9H
Mrs. Nadworny

MORE Horizontal Projectiles

Directions - Solve the following problems using the GUESS method. Show ALL work neatly using proper units and significant figures.

1. A ball is thrown horizontally from the top of a building with an initial velocity of 15 meters per second. At the same instant, a second ball is dropped from the top of the building. The two balls have the same
A) path as they fall
B) initial horizontal velocity
C) final velocity as they reach the ground
D) initial vertical velocity
2. The flight time of a horizontal projectile is dependent upon all of the following EXCEPT
A) initial horizontal velocity
B) gravity
C) height
D) air resistance
3. A ball is rolled down a ramp and projected horizontally from a height of 1.7 meters. It lands 2.5 meters away. Calculate its initial speed. [Hint: You will need to solve for time first.]

	x	y
d		
t		
a		
v_i		
v_f		

4. The ball from question 3 is now raised to a height of 2.1 meters. Where is it going to land? [Hint: The initial velocity does not change with a height change, but the time does. This is also a two step question.]

	x	y
d		
t		
a		
v_i		
v_f		

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