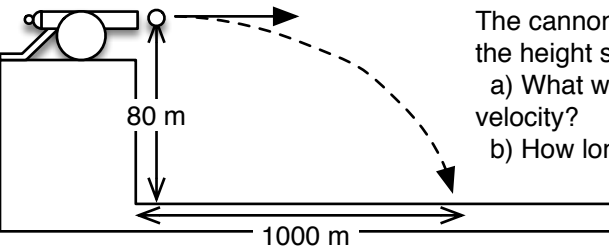
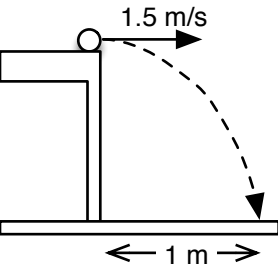


Cycle 17 2D Motion**4. Horizontal Shots**

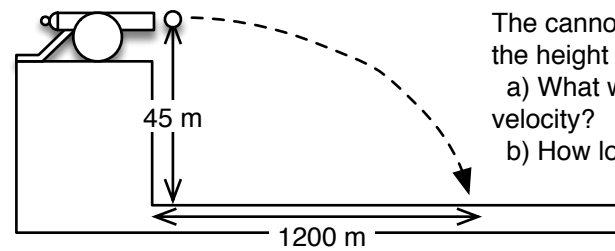
The cannonball is shot horizontally from the height shown. It lands as shown.

- a) What was the cannonball's initial velocity?
- b) How long was it in flight?



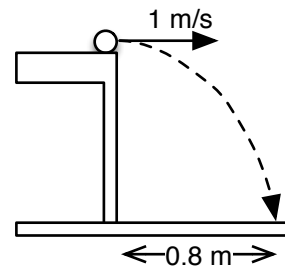
Your meatball rolls off the table with an initial horizontal velocity and lands on the floor as shown.

- a) What was the meatball's time of flight?
- b) What is the height of the table?

Cycle 17 2D Motion**4. Horizontal Shots**

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- a) What was the cannonball's initial velocity?
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Your meatball rolls off the table with an initial horizontal velocity and lands on the floor as shown.

- a) What was the meatball's time of flight?
- b) What is the height of the table?

Each person uses their own Hot Wheel.

1. Choose a Hot Wheel and use the BeeSpi to measure its velocity at the bottom of the ramp. **Hold on to the Hot Wheel.**

2. Do 3 trials and take an average.

trial	1	2	3	average
Vx (m/s)				

3. Measure the height of the table in METERS.

Height (m)	
------------	--

4. Use the average Vx and the height to solve for how far from the base of the table it will land on the floor.

5. Let Mr. Mont know when you are ready to try it for real. If you hit the spot you predicted, you may receive a prize.

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