

Physics 151 Worksheet #0: Gaining Familiarity with Physlets

Name: _____

Partner: _____

1. Making Measurements in a Physlet – Measure and calculate the following quantities for the blue rectangle (make sure to apply the correct rules for significant figures).

Length = _____

Height = _____

Perimeter = _____

Area = _____

2. Controlling Time in a Physlet - Determine the position of the ball at a time of $t = 3.9$ s?

$x(t=3.9) =$ _____

$y(t=3.9) =$ _____

3. Data Connections in Physlets – Estimate the velocity of the ball at a time of $t = 1.05$ s?

$v(t=1.05) =$ _____

4. Rank the three balls according to which one hits the ground first and which one has the greatest speed upon impact with the ground. Then explain your reasoning?

	Order Balls Hit the Ground
1.	
2.	
3.	

Explanation:

	Speed Balls Hit the Ground
1.	
2.	
3.	

Explanation: