

# Difference in Landing Speeds

Step 1: Label all the information in the picture below



Step 2: Show your calculations for the time of fall for each ball neatly below

Step 3: Calculate the vertical speed of each ball when they reach the ground. This should be the total speed of the ball to the left (Ball 1). Show your calculations neatly below

Step 4: Calculate the total speed of the ball to the right (Ball 2). Enter your answers into the program to make sure you did everything correctly

Step 5 (Optional): Find the angle of the velocity of the ball to the right (Ball 2). Give the angle that this velocity makes to the horizontal. Draw the velocity triangle in the space below.