

4. A ball is shot 65 m/s from a cannon set at an angle of 42° . The ball needs to hit a target on a wall. The target is 12 m up the wall. How far away should the wall be set?

5. Bolto the human cannonball is shot at an angle of 66° and a velocity of 35 m/s. He wants to shoot thru a hoop at the top of his path. Where should that hoop be? (Both x and y positions, please.)

6. A ball is shot from the ground going 75 m/s at 23° , what is its TOTAL velocity and direction 3.5 seconds into its flight?