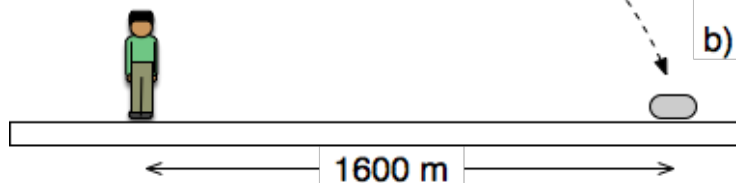# Cycle 13 - Projectile Motion

The pilot (who clearly has no physics training) drops your package when directly overhead. The package lands 8 seconds later and you end up walking 1600 m to get it.
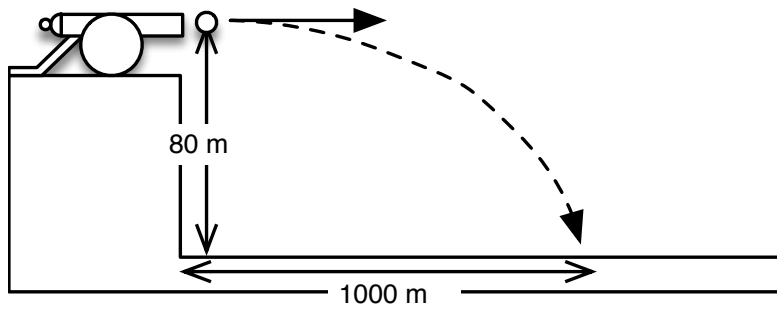
a) Assuming the airplane's velocity was horizontal, what was its velocity?
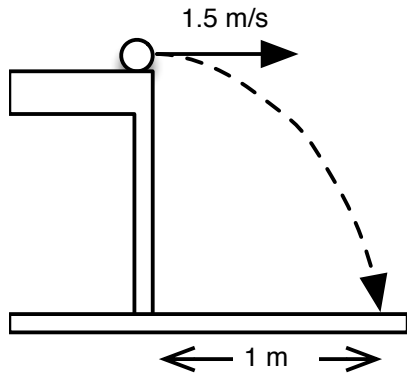
b) What was the airplane's altitude?

1600 m

Cycle 13 - Projectile Motion

80 m

1000 m

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

a) How long was it in flight?

b) What was the cannonball's initial velocity?

1.5 m/s

1 m

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?