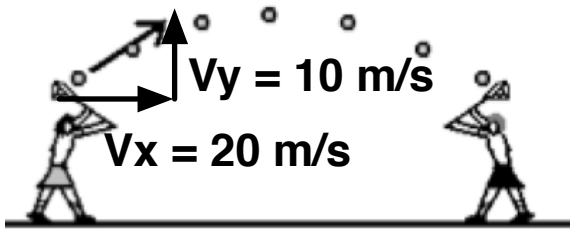


Wk 22 Projectile Motion

Day 4: Angled Shots

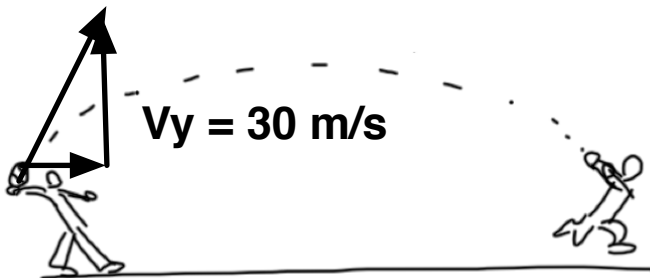
name: _____



1.a) How much time to go to the top? $t \text{ to top} = V_y/10$

c) What is the total time?

d) How far did it go in the x-direction? $dx = (V_x)(t)$



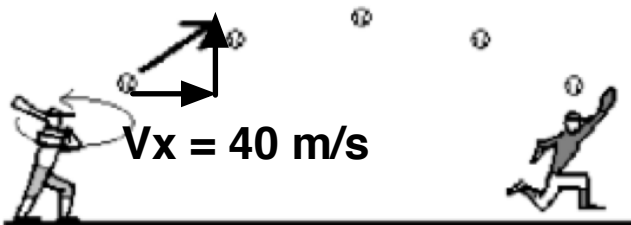
2.a) How much time to go to the top? $t \text{ to top} = V_y/10$

c) What is the total time?

d) How far did it go in the x-direction? $dx = (V_x)(t)$

$V_x = 6 \text{ m/s}$

$V_y = 20 \text{ m/s}$

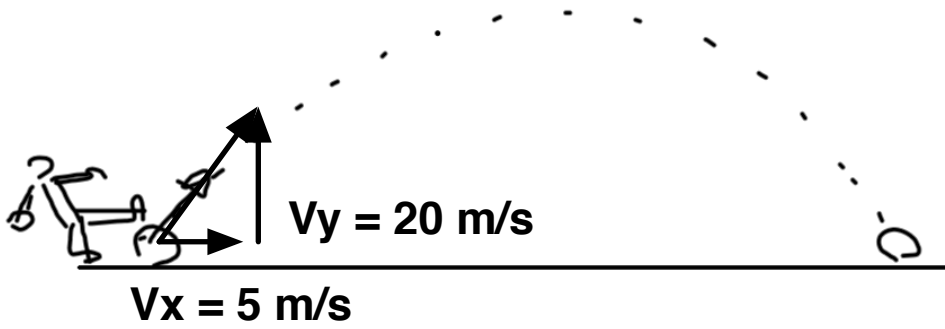


3.a) How much time to go to the top? $t \text{ to top} = V_y/10$

c) What is the total time?

d) How far did it go in the x-direction? $dx = (V_x)(t)$

$V_x = 40 \text{ m/s}$



4.a) How much time to go to the top?

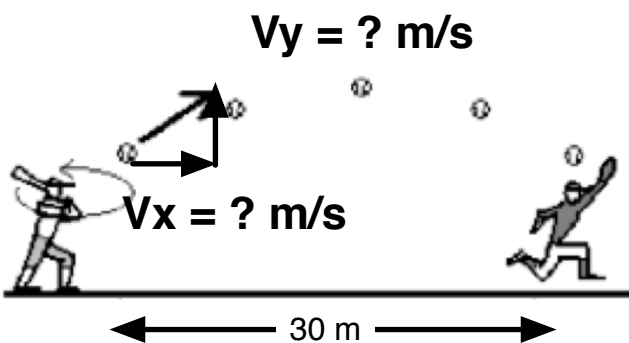
$$t \text{ to top} = Vy/10$$

c) What is the total time?

d) How far did it go in the x-direction?

$$dx = (Vx)(t)$$

Can you work backwards?



5. The ball is in the air for **6 seconds**. It goes 30 meters.

a) What is the time to the top?

b) What is V_y ?

c) What is V_x ?