

Oct 8, 2013

# Test Review

\* Vectors - definition - do example \* Resultant?  
Magnitude & Direction  
(scalar)

\* Scalar - Magnitude only

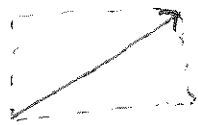
\* How do we represent vectors?



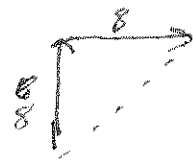
Length & Direction



\* How do we find the components

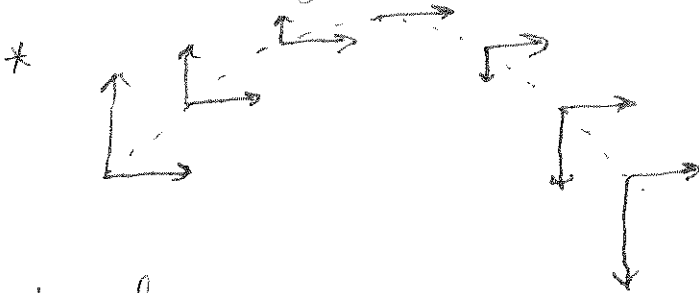


- draw to scale
- draw Rectangle
- draw diagonal



- a. 8
- b. 14
- c. 16
- d. 20

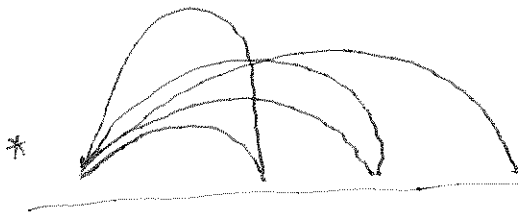
\* Review yellow sheet



- discuss vertical & Horizontal
- when is it fastest? slowest?
- Why is the Horizontal unchanged?  
\* No acceleration

\* dropped shot

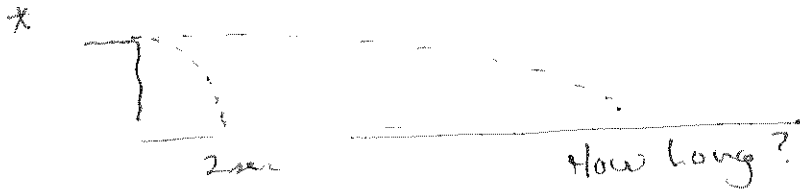
which will hit the ground first?



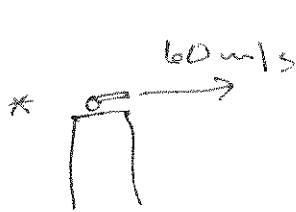
- Complementary angles
- $45^\circ$

\* does all the really happen - No because of Air Friction

\* Projectiles return with the same speed that they leave with.



what is the acceleration everywhere?  
g



where is it 2 seconds later?

Horizontal

$$d = vt$$

$$d = (60)(2)$$

$$d = 120m$$

Vertical

$$y = \frac{1}{2}at^2$$

$$y = \frac{1}{2}(-9.8)(2)^2$$

$$y = -19.6m$$

\* what is an orbit?

