Projectile Challenge #1

Name _____   Date _____

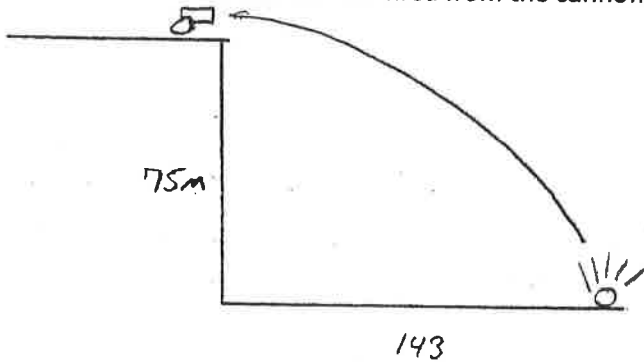Pictures can be very helpful in determining which formulas to use!!!!

Show all work.

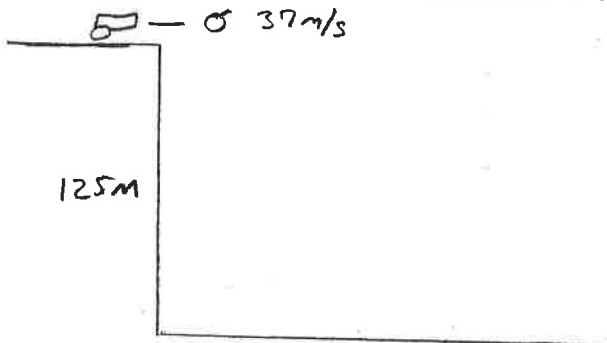Formulas : $v=d/t$ $v=gt$ $d=vt$ $d=.5gt^2$ or $d=5t^2$

1. If a ball falls for 7 seconds, how fast will it be going when it strikes the ground?

2. How far would the ball from problem #1 have fallen in the same time?

3. How fast was the ball fired from the cannon?

75m

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4. How far will the ball travel from the base of the cliff?

37m/s

125m

5. How far does the ball travel in the x axis? The y axis?

15m/s

25m

25m