

TOPIC 1: MECHANICS – PROJECTILE MOTION

Learner Note: Always draw a diagram of the situation and enter all the numerical values onto your diagram. Remember to **SELECT A DIRECTION AS POSITIVE OR NEGATIVE**.

SECTION A: TYPICAL EXAM QUESTIONS**QUESTION 1: 6 minutes**

(Taken from the WC Prelim. paper 2008)

A cross-bow (bow and arrow) is used to shoot an arrow vertically upwards into the air from the top of an 80 m high platform. The arrow reaches a height of 15 m above the platform and then falls to the ground below. Ignore the effects of air friction.



- 1.1 Calculate the magnitude of the velocity of the arrow at the instant it is shot up into the air from the top of the platform. (4)
- 1.2 Calculate the time it takes for the arrow to reach the ground from the moment it is shot upwards (4)
- [8]

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