Year 12 Physics
Quick Quiz: Projectile Motion

1. Calculate the initial components of velocity for an object launched at 30 ms^{-1} at an angle of 30° above the horizontal.

2. State, for each of the following cases, the variable(s) which are zero.
   (a) An object dropped

   (b) An object that launches and lands at the same height

   (c) Maximum height

   (d) Horizontal component of a projectile

3. Calculate the velocity of an object after 1.0 seconds if it was launched horizontally at a speed of 5.0 ms^{-1}.

4. State the two concepts that can be shown from a multi-image diagram.