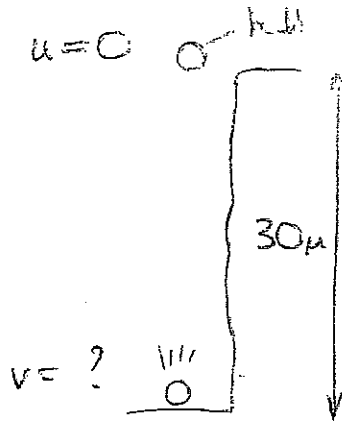


5. A ball is dropped from the top of a cliff. It accelerates at  $10 \text{ m/s}^2$ . What will its final speed be just before it hits the ground 30 metres below?



6. A ball is thrown vertically upwards and reaches a maximum height of 12 metres.
- What is the ball's velocity at this point?
  - If the acceleration due to gravity is  $10 \text{ m/s}^2$  (downwards), at what upwards velocity was the ball thrown? (take  $a = -10 \text{ m/s}^2$ )

