

# Vertical Projection Examples

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1. A stone is dropped down a 15m well. How long does it take to hit the bottom?
2. A ball is thrown upwards at  $5.0\text{ms}^{-1}$ . What is the maximum height reached?
3. A ball is thrown upwards at  $10\text{ms}^{-1}$ , then caught again. How long does it spend in the air?
4. A ball is thrown upwards at the edge of a cliff at  $4.0\text{ms}^{-1}$ . It then lands 20m below. How long did it spend in the air?

