

## IB Physics End of year exam practice questions [43 marks]

### 1. SPM.1A.SL.TZ0.1

A car has an initial speed of  $16 \text{ m s}^{-1}$ . It decelerates at  $4.0 \text{ m s}^{-2}$  until it stops.

What is the distance travelled by the car?

- A. 4 m
- B. 16 m
- C. 32 m
- D. 64 m

[1]

### 2. SPM.1A.SL.TZ0.2

A block of mass  $2.0 \text{ kg}$  accelerates from a speed of  $15 \text{ m s}^{-1}$  to a speed of  $20 \text{ m s}^{-1}$  without changing its direction.

What impulse acts on the block?

- A.  $2.5 \text{ N s}$
- B.  $5.0 \text{ N s}$
- C.  $10 \text{ N s}$
- D.  $17.5 \text{ N s}$

[1]

# Physics End Of Year Exam Grade12013

**ML Morrison**



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