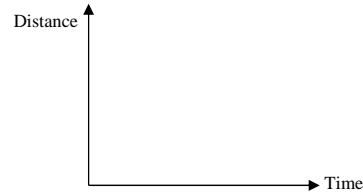


10SCI Distance Time Graphs QUESTIONS

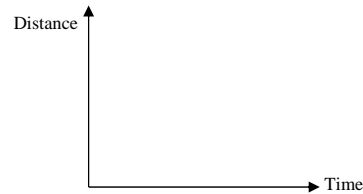
Name: _____

1. On each set of axis below, sketch a line to represent the type of motion described.

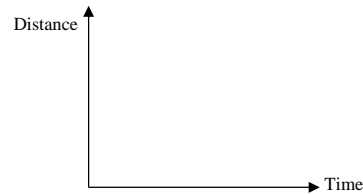
(a) An object moving at a **constant speed**.



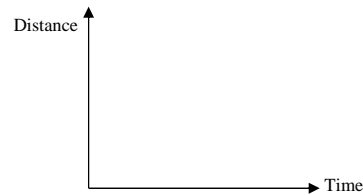
(b) An object **accelerating**.



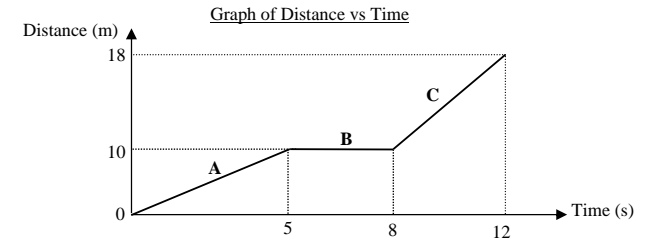
(c) An object **decelerating**.



(d) An object that travels at **constant speed**, **stops** for a while (remains stationary), then travels at a **faster constant speed**.



2. The motion of a car is shown on the following graph.



(a) Describe the motion of the car in each section of the journey.

- A. _____
- B. _____
- C. _____

(b) What distance has been travelled after 5 seconds? _____
 after 8 seconds? _____ after 12 seconds? _____

(c) Calculate the speed of the car in:

- Section A _____
- Section B _____
- Section C _____

(d) Calculate the average speed of the car for the entire journey.

(e) If the car continued to travel at the speed it was moving in Section C, calculate how long it would take to reach a total distance of 40 metres.
