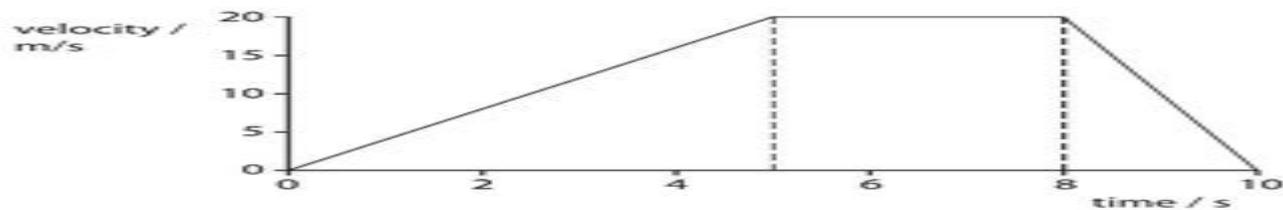


3 The graph shows how the velocity of a small car changes with time.



(a) Complete the sentence by putting a cross (X) in the box next to your answer.

The resultant force on the car will be zero when the car is

- A** accelerating
- B** decelerating
- C** changing velocity
- D** moving at a constant velocity

(1)

(b) (i) Use the graph to estimate the velocity of the car at three seconds.

(1)

velocity _____ m/s

(ii) Calculate the acceleration of the car when it is speeding up.

(2)

acceleration = _____ m/s²

(iii) Explain why the units of acceleration are m/s².

(2)

(iv) Show that the car travels further at a constant velocity than it does when it is slowing down.

(3)

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