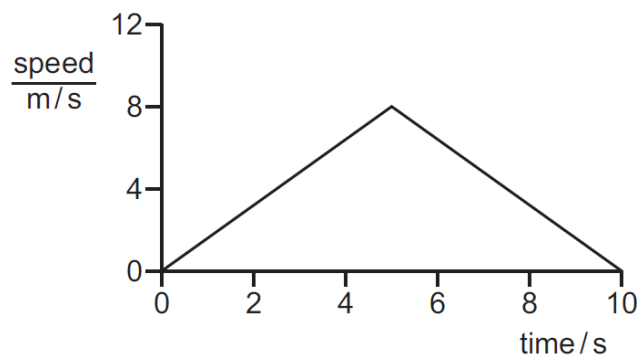


## Motion – 2019 Nov

1. 0625/11/O/N/19/No.2

The graph shows how the speed of an object changes with time.



How far does the object travel in 10 seconds?

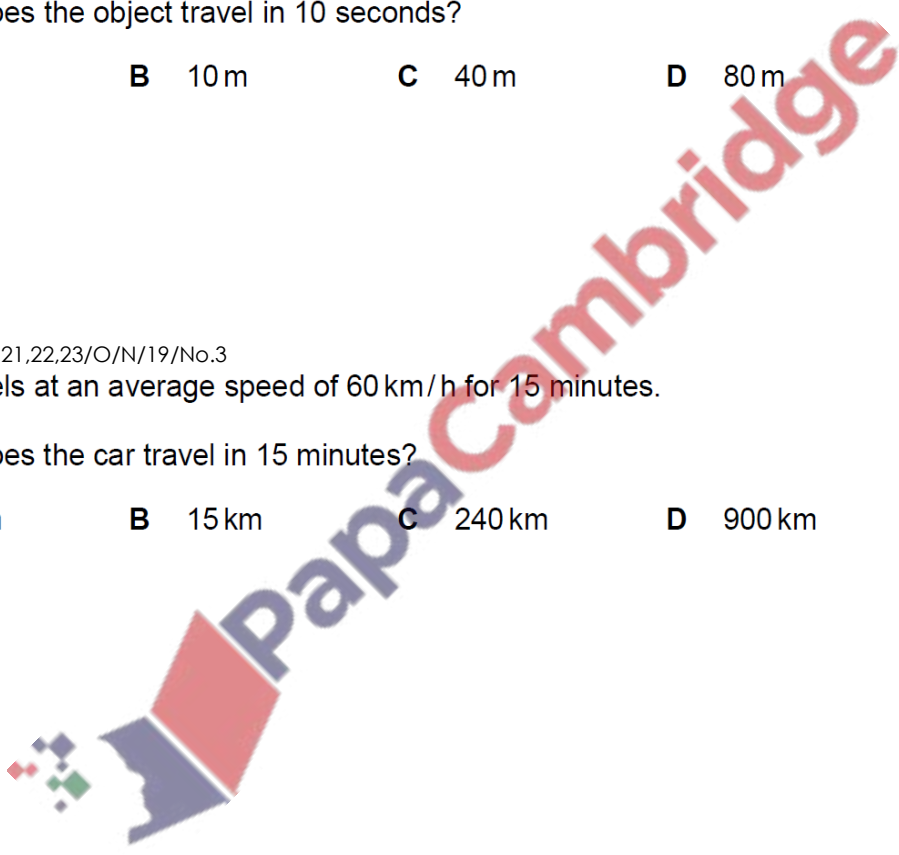
- A** 8 m                      **B** 10 m                      **C** 40 m                      **D** 80 m

2. 0625/11, 12,13,21,22,23/O/N/19/No.3

A car travels at an average speed of 60 km/h for 15 minutes.

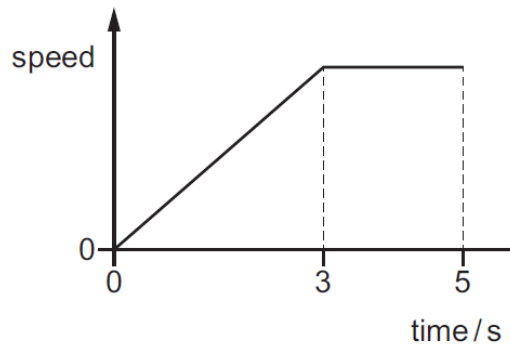
How far does the car travel in 15 minutes?

- A** 4.0 km                      **B** 15 km                      **C** 240 km                      **D** 900 km



3. 0625/12/O/N/19/No.2

The graph shows the motion of a car for a five-second period.



Which row is correct?

	the car is at rest at	the car is moving at a constant speed at
<b>A</b>	0.0 s	2.0 s
<b>B</b>	0.0 s	4.0 s
<b>C</b>	4.0 s	0.0 s
<b>D</b>	4.0 s	2.0 s

4. 0625/13/O/N/19/No.2

An object begins to fall close to the Earth's surface. Air resistance can be ignored.

Which statement about the object's acceleration is correct?

- A** The acceleration is constant.
- B** The acceleration decreases as the body falls.
- C** The acceleration increases as the body falls.
- D** The acceleration is zero.

5. 0625/21/O/N/19/No.2

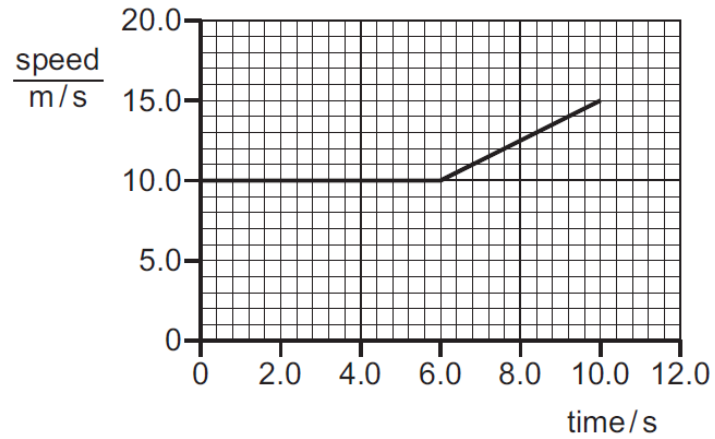
A light object is dropped from rest. It falls a large distance vertically through air.

How can the motion of the object be described?

- A** constant acceleration
- B** increasing acceleration
- C** decreasing acceleration and then moving at terminal velocity
- D** increasing acceleration and then moving at terminal velocity

6. 0625/22/O/N/19/No.2

The graph shows how the speed of a car varies during part of a journey.



What is the acceleration of the car between 6.0 s and 10.0 s?

- A**  $0.50 \text{ m/s}^2$     **B**  $0.80 \text{ m/s}^2$     **C**  $1.25 \text{ m/s}^2$     **D**  $1.50 \text{ m/s}^2$

7. 0625/23/O/N/19/No.2

The graph shows how the speed of an object varies with time.

At which labelled time is the object decelerating?

