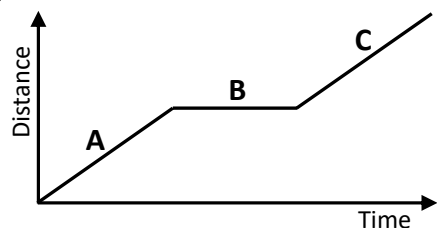




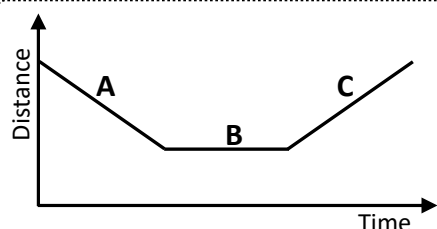
Name: \_\_\_\_\_



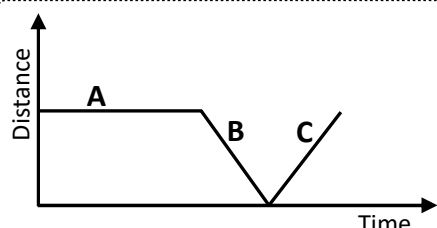
Interpret the distance time graphs by describing what is happening at each letter given:



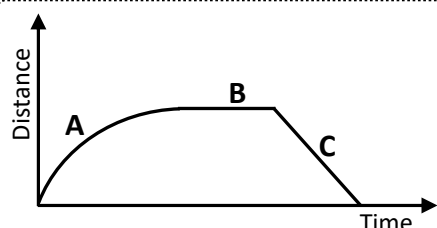
- A **Moving away (constant speed)**
- B **Stationary**
- C **Moving away (constant speed)**



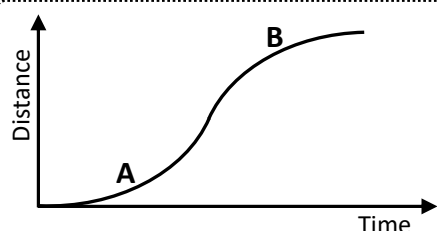
- A **Moving back (constant speed)**
- B **Stationary**
- C **Moving away (constant speed)**



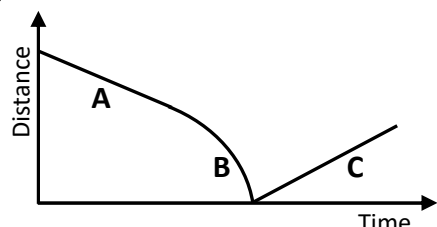
- A **Stationary**
- B **Moving back (constant speed)**
- C **Moving away (constant speed)**



- A **Moving away (decelerating)**
- B **Stationary**
- C **Moving back (constant speed)**



- A **Moving away (accelerating)**
- B **Moving away (decelerating)**

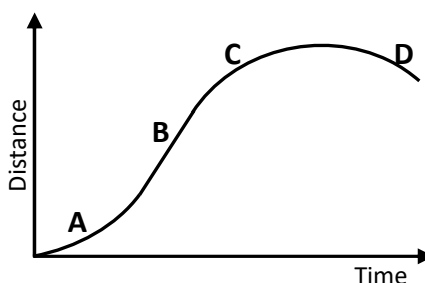


- A **Moving back (constant speed)**
- B **Moving back (accelerating)**
- C **Moving away (constant speed)**

**Exam question:**

Which section of the graph shown represents the speed decreasing (decelerating)

**C**

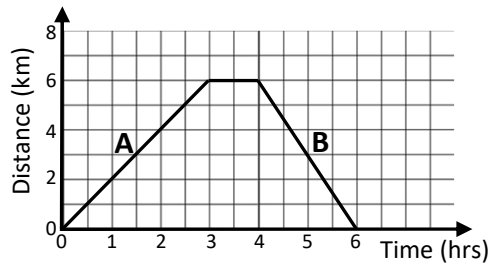




Name: \_\_\_\_\_



Calculate the speed of **each** sloping part of the graphs:

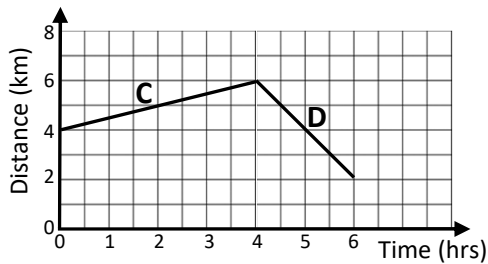


A

2km/h

B

3km/h

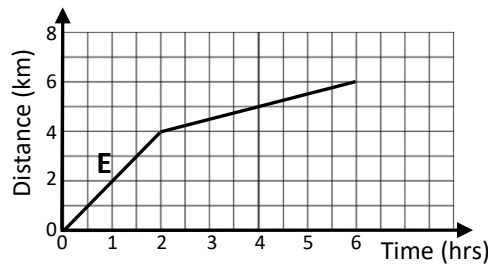


C

0.5km/h

D

2km/h

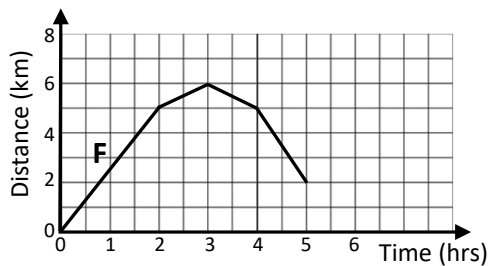


E

2km/h

Calculate the **average** speed of the whole journey.

1km/h

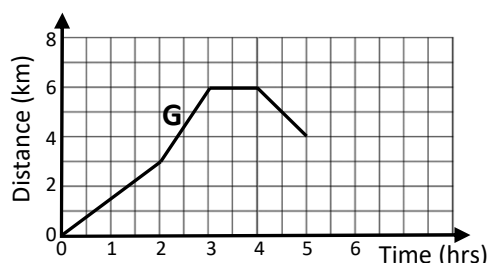


F

2.5km/h

Calculate the **average** speed of the whole journey.

2km/h



G

3km/h

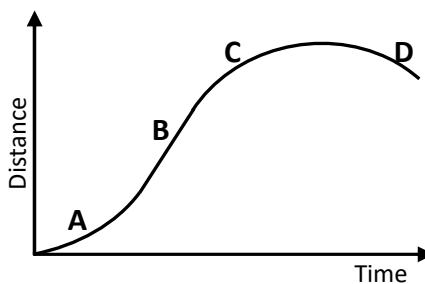
Calculate the **average** speed of the whole journey.

1.6km/h

**Exam question:**

Which section of the graph shown represents the speed decreasing (decelerating)

C



# Drawing Distance Time Graphs

112c



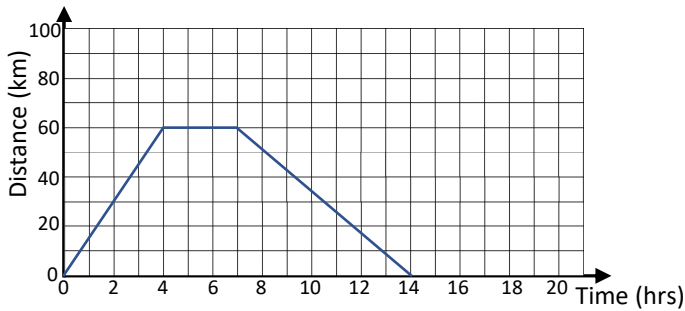
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Name: \_\_\_\_\_

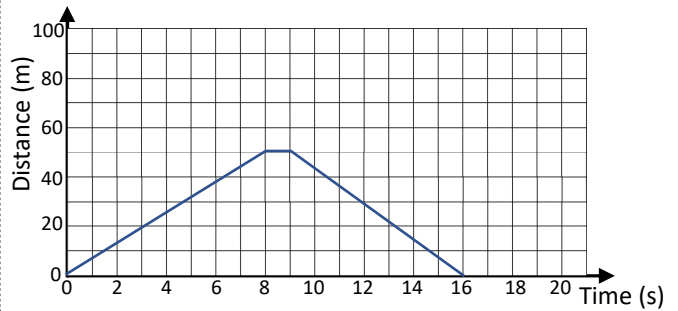


Plot the distance time graphs using the explanations given

A vehicle travels 60km away from home at a constant speed in 4 hours. It stops for 3 hours before it returns at a constant speed taking 7 hours



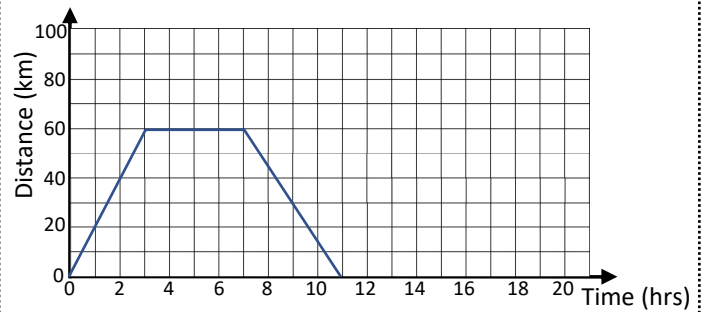
An animal runs 50m away at a constant speed in 8 seconds. It stops for a second before running back to where it started in 7 seconds



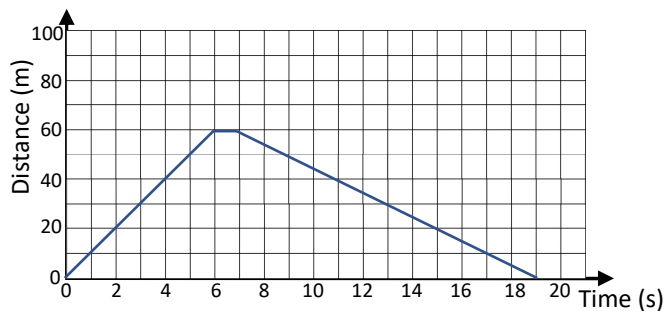
A vehicle is parked 90km away from home. After 4 hours it sets off and returns home at a constant speed of 15km/hour.



A bike travels away from home at a speed of 20km/hour. It stops after 3 hours for 4 hours. It then returns at a constant speed of 15 km/hour



A dog runs to fetch a stick 60 metres away at 10 m/s away. It stops for 1 second before slowly returning the stick at a speed of 5 m/s.



A car travels at 30 mph for 3 hours from home. It parks for 1 hour. It then drives back at 20mph



## Exam question:

A bike travels 80km at a constant speed taking 3 hours to reach it's destination. It stops for 1 hour before returning taking a further 4 hours. Represent the journey on the distance time graph

