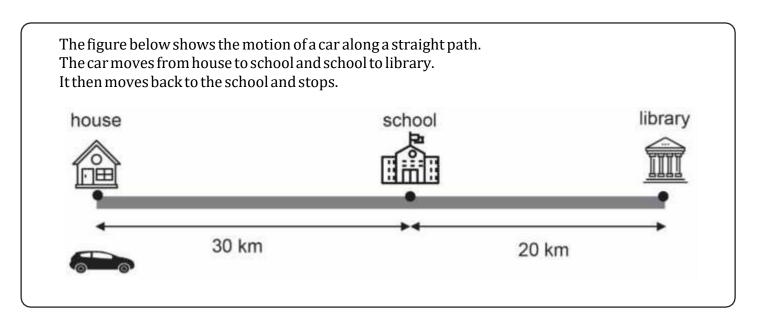
Curriculum Aligned Competency Based Test Items Science Class 9 – Chapter 8 Motion



SAS21S090801

What is the net displacement of the car?

- A. 20 km
- B. 30 km
- C. 50 km
- D. 70 km

SAS21S090802

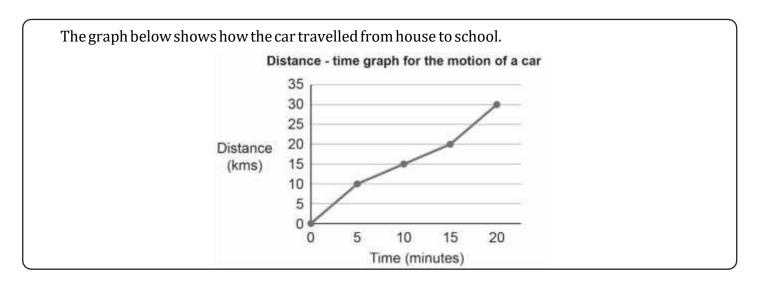
What is the total distance travelled by the car?





Curriculum Aligned Competency Based Test Items

Class 9 - Chapter 8



SAS21S090803

Did the car move with uniform motion from house to school? Explain your answer.

The table below shows the speed of a bus in three hours of its travel.

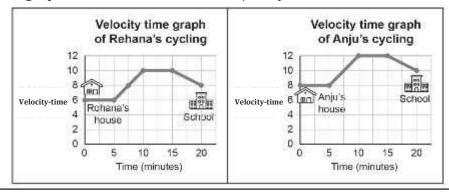
	First hour	Second hour	Third hour
Speed of the bus	35 km/hr	60 km/hr	40 km/hr

SAS21S090804

What was the average speed of the bus?

- $35 \, \text{km/hr}$ A.
- B. $40 \, \text{km/hr}$
- C. $45 \, \text{km/hr}$
- D. 60 km/hr

Rehana and Anju stay at different places but study in the same school. The velocity-time graph shows how Rehana and Anju bicycled from house to school.





Curriculum Aligned Competency Based Test Items



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SAS21S090805

Which statement can be concluded from Rehana's cycling graph?

- A. Rehana was at rest during the first 5 minutes.
- B. Rehana cycled the fastest between 5 minutes and 10 minutes.
- C. Rehana cycled with uniform acceleration between 15 minutes and 20 minutes.
- $D. \qquad \text{Rehana was cycling with a uniform velocity between 10 minutes and 15 minutes}.$

SAS21S090806

What was Rehana's maximum cycling velocity?

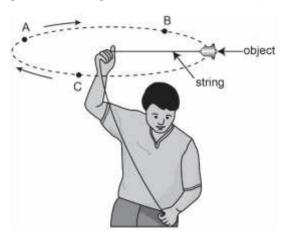
SAS21S090807

What can be concluded by comparing the velocity-time graphs of Rehana and Anju?

- A. Anju took lesser time to reach school than Rehana.
- B. Anju cycled faster than Rehana at the start of the journey.
- C. Anju and Rehana had the same maximum cycling velocity.
- D. Anju's cycling velocity in the first 5 minutes was lesser than that of Rehana.

The picture below shows a man swinging an object in a uniform circular motion.

A, B and C are three different points on the path of motion of the object.



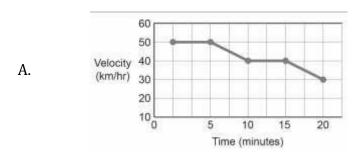
SAS21S090808

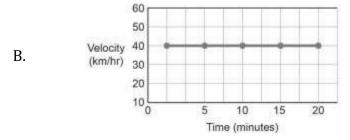
What is the net displacement of the object after one complete swing?

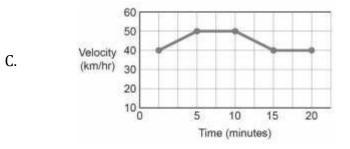
Science Class 9 - Chapter 8

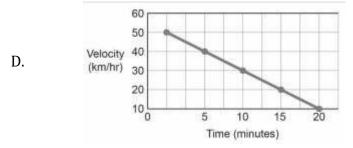
SAS21S090809

Which velocity-time graph shows a period of acceleration in the motion?









SAS21S090810

What is the correct unit for measuring the acceleration of a moving object?

- A. m
- B. s
- C. $m s^{-1}$
- D. ms









Science Class 9 - Chapter 8

SAS21S090809