

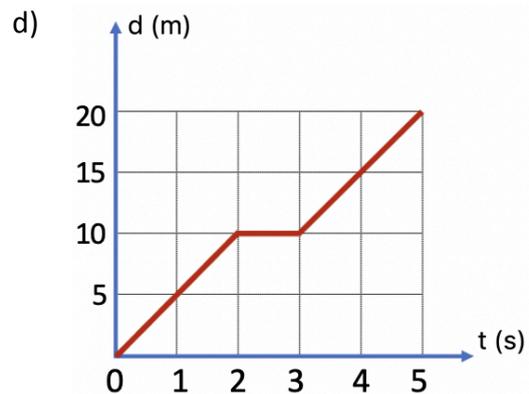
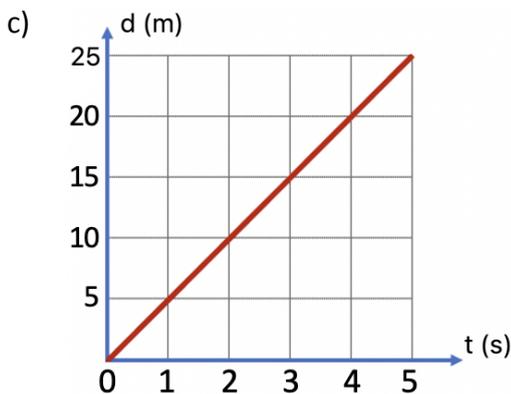
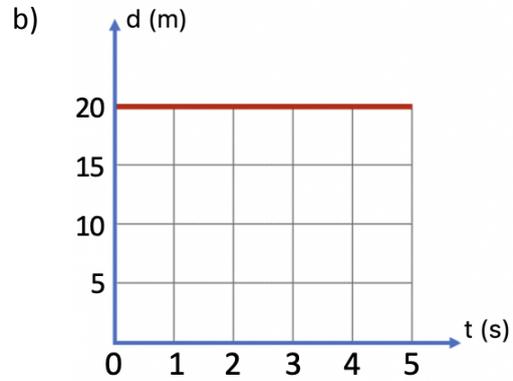
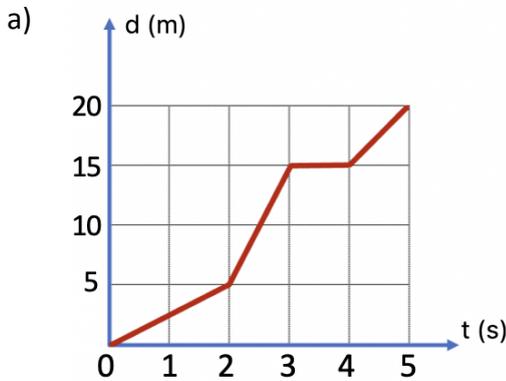
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Motion Graphs (Distance Time Graphs) - Worksheet

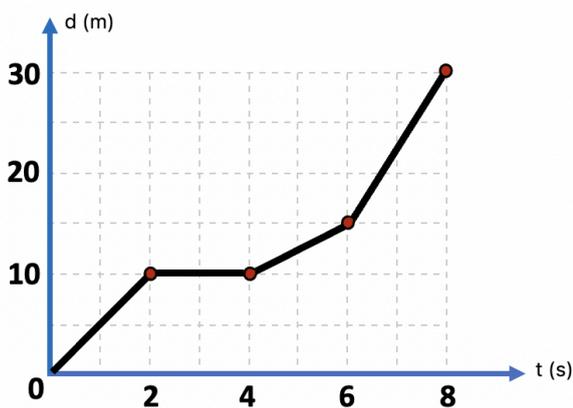
Q.1. Positions of an object at different times are given in the table below.

Distance (m)	0	5	10	10	15	20
Time (s)	0	1	2	3	4	5

Which of the following could be the **distance - time graph** for this object?



☑ Use the distance - time graph below to answer the next two questions. (Q.2 - Q.3)



Q.2. What is the speed of the object **between 0 and 2 seconds**?

- a) 0 m/s b) 2.5 m/s c) 5 m/s d) 7.5 m/s

Q.3. What is the speed of the object **between 2 and 4 seconds**?

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a) 0 m/s

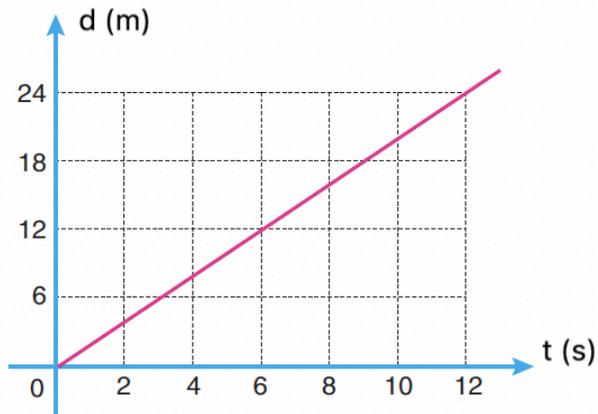
b) 2.5 m/s

c) 5 m/s

d) 7.5 m/s

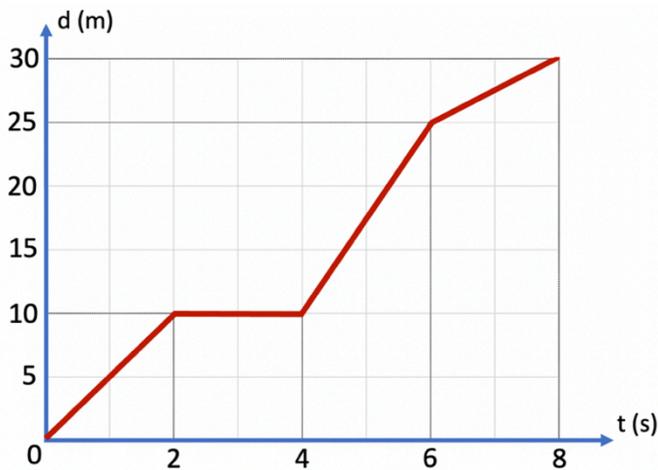
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Q.4. How far did the object travel in the first 10 seconds?



- a) 18 m b) 20 m c) 22 m d) 24 m

☑ Use the distance - time graph below to answer the next two questions. (**Q.5 - Q.6**)



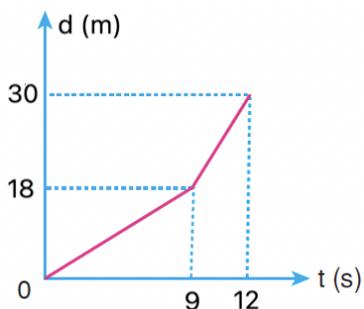
Q.5. In which time interval is the object traveling **fastest**?

- a) Between 0 and 2 seconds b) Between 2 and 4 seconds
c) Between 4 and 6 seconds d) Between 6 and 8 seconds

Q.6. During which interval is the object **not moving**?

- a) Between 0 and 2 seconds b) Between 2 and 4 seconds
c) Between 4 and 6 seconds d) Between 6 and 8 seconds

Q.7. What is the speed of the object between 9 and 12 seconds?



Name:

a) 0 m/s

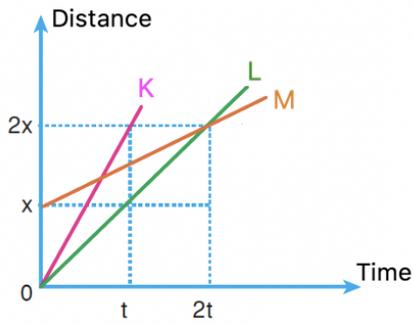
b) 2 m/s

c) 4 m/s

d) 6 m/s

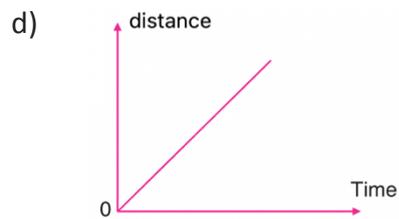
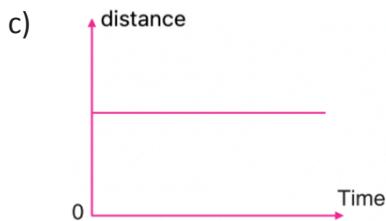
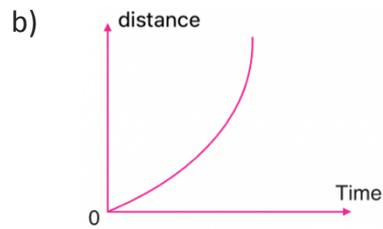
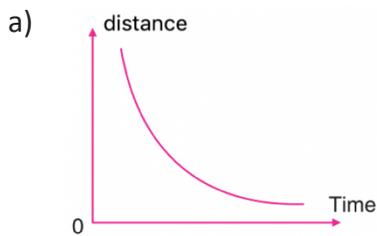
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Q.8. Which object is moving **faster**?

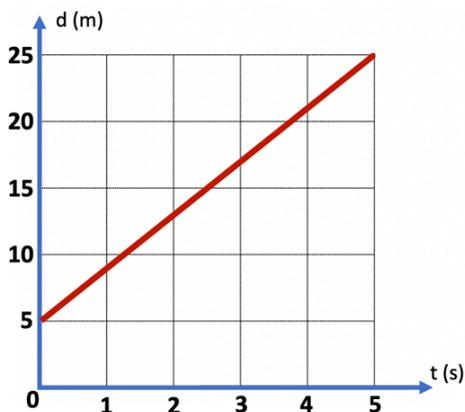


- a) K
- b) L
- c) M
- d) They have the same speed.

Q.9. Which of the following distance-time graphs represents an object moving with a **constant speed**?



☑ Use the distance - time graph below to answer the next two questions. (**Q.10 - Q.11**)



Q.10. What is the **initial position** of the object?

- a) 0 m
- b) 5 m
- c) 10 m
- d) 15 m

Q.11. What is the **velocity** of the object?

Name:

a) 0 m/s

b) 2 m/s

c) 4 m/s

d) 5 m/s