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Q.5. Which of the following is **not** essential to describe the motion of an object?

- a) Position
- b) Direction
- c) Weight
- d) Speed

Q.6. If a train is moving south at 30 km/h relative to a school building, which term describes the school building?

- a) Reference point
- b) Moving object
- c) Direction
- d) Speed

Q.7. If a train moves south, what aspect of motion does “south” represent?

- a) Speed
- b) Direction
- c) Acceleration
- d) Distance

Q.8. Which term describes a measure of how fast an object changes its position, regardless of direction?

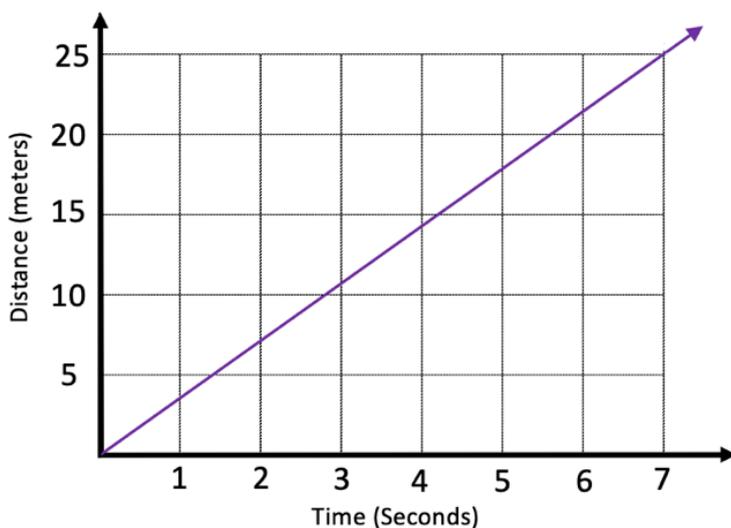
- a) Speed
- b) Displacement
- c) Distance
- d) Acceleration

Q.9. Fill in the blanks choosing the correct option

✧ An object is _____ when its position does not change in relation to a reference point.

- a) accelerating
- b) moving
- c) stationary
- d) slowing down

Q.10. A distance time graph is shown below.



What does the slope of a distance time graph indicate?

- a) Acceleration
- b) Displacement

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c) Direction

d) Speed

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Q.11. Which of the following statements fully describes motion?

- a) The object is moving slowly.
- b) The object is moving south at 5 m/s from point B.
- c) The object is at point A.
- d) The object is near the statue.

Q.12. Which of the following statements is **false**?

- a) Distance is a scalar quantity.
- b) Displacement has both magnitude and direction.
- c) Displacement is always equal to the total distance covered.
- d) Displacement can be zero despite motion.

Q.13. A horse runs west at 6 m/s, and a student walks west at 3 m/s. How does the horse move relative to the student?

- a) East at 3 m/s
- b) West at 3 m/s
- c) West at 9 m/s
- d) Not moving

Q.14. Speed is determined by dividing which of the following?

- a) Time by distance
- b) Distance by time
- c) Direction by time
- d) Position by distance

Q.15. What is the SI unit for speed?

- a) Newton (N)
- b) Joule (J)
- c) Kilogram (kg)
- d) Meter per second (m/s)

Q.16. A cyclist travels 18 m east in 6 s. What is their speed?

- a) 2 m/s
- b) 3 m/s
- c) 5 m/s
- d) 18 m/s

Q.17. The movement of a train is shown below.



What is the train's speed?

- a) 30 m/s
- b) 60 m/s
- c) 30 km/h
- d) 60 km/h

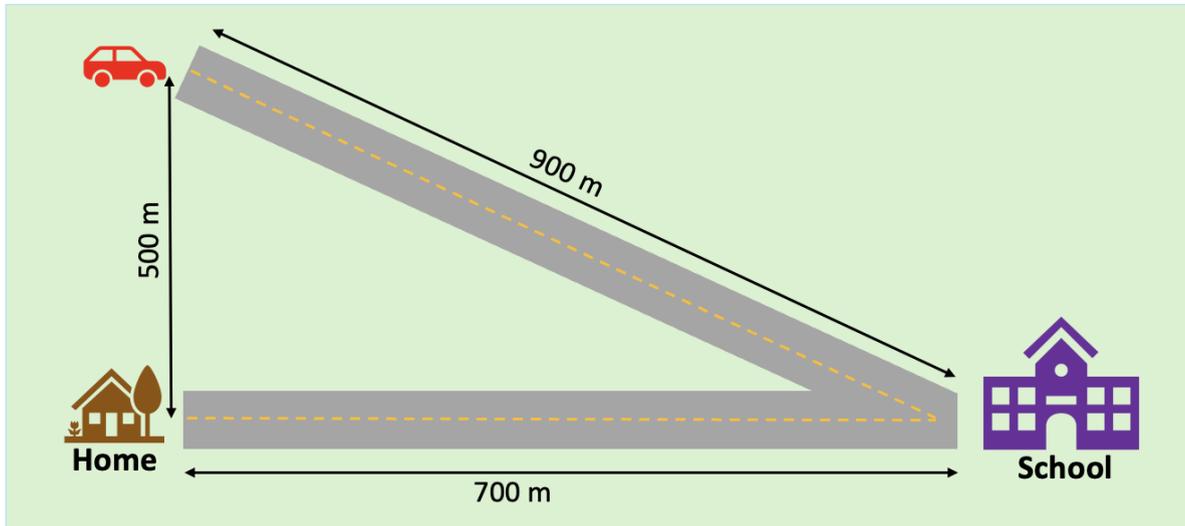
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Q.18. Velocity is determined by dividing which of the following?

- a) Displacement by time
- b) Distance by time
- c) Position by distance
- d) Direction by time

✧ The car goes to the school first and then goes home. Use this visual to answer the next two questions.



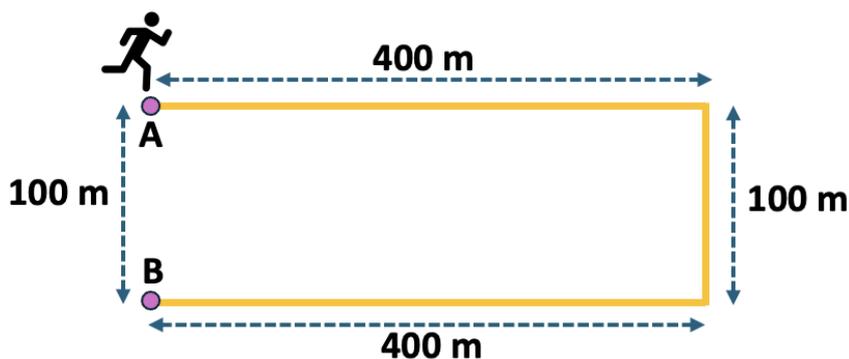
Q.19. What is the car's distance?

- a) 200 m
- b) 500 m
- b) 900 m
- b) 1600 m

Q.20. What is the car's displacement?

- a) 200 m
- b) 500 m
- b) 900 m
- b) 1600 m

✧ A runner is running from point A to point B, as shown below. Use this visual to answer the next two questions.



Q.21. What is the runner's distance?

- a) 100 m
- b) 400 m
- b) 500 m
- b) 900 m

Q.22. What is the runner's displacement?

- a) 100 m
- b) 400 m
- b) 500 m
- b) 900 m