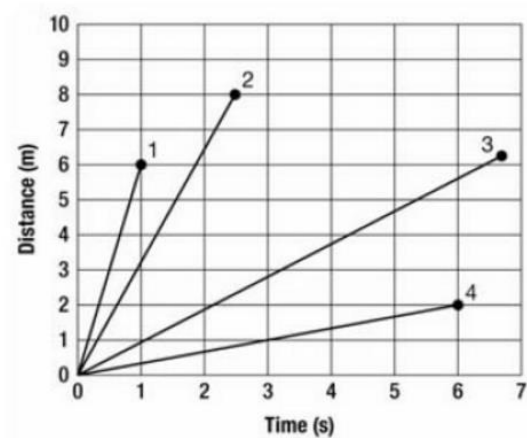


Unit 1 Review

- 1) An airplane leaves New York to fly to Los Angeles. It travels 3,850 km in 5.5 hours. What is the average speed of the airplane?
-

- 2) The law of universal gravitation says all bodies attract each other. If you drop a cup, it falls to Earth. Why doesn't the gravitational attraction between your hand and the cup keep the cup from falling?
-

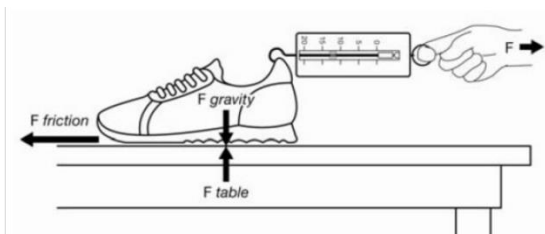
- 3) This distance-time graph shows the speeds of four toy cars



Which car is the fastest?

.....

- 4) The diagram below shows the forces acting on a sneaker. As the force F is applied, the sneaker does not move.



Which statement below correctly describes the forces?

- A. ☐ The net force is acting in an upward direction.
- B. ☐ The net force is acting to the left.
- C. ☐ The net force is moving to the right.
- D. ☒ The net force is zero and all the forces are balanced.

Unit 1 Review

- 5) Julia is in a car with her father. The car is undergoing centripetal acceleration. What is happening to the car?
- A. ☒ The car is changing direction at a constant speed.
 - B. ☐ The car is changing direction and speeding up.
 - C. ☐ The car is stopping suddenly.