Acceleration Quiz

Part 1 - Multiple Choice

How fast is fast?

Practice A and B are data tables of a remote control cars speed over 4 seconds of time. Use this data to answer the following questions.

- 1. _____ In Practice B, how fast was the car going after 3 seconds?
 - A. 6 meters/seconds
 - B. 4 meters/seconds
 - C. 2 meters/ seconds
 - D. O meters/seconds
- 2. ____ In Practice A, how long did it take the car to reach 6 m/s?
 - A. 2 seconds
 - B. 3 seconds
 - C. 4 seconds
 - D. 6 seconds
- 3. _____ In Practice B, what was the car doing over those 4 seconds?
 - A. speeding up
 - B. slowing down
 - C. keeping a constant speed
 - D. free falling
- 4. ____ How would you calculate the acceleration of this car in Practice B?
 - A. (4s) / 0 m/s
 - B. (0 8 m/s) / 4 s
 - C. (4s) / 8 m/s
 - D. (8 m/s 0) / 4 s
- 5. ____ What is the acceleration of the car in Practice A?
 - A. 32 m/s/s
 - B. 8 m/s/s
 - C.4 m/s/s
 - D. 2 m/s/s

Practice A

Time	Velocity
(s)	(m/s) [*]
0	0
1	2
2	4
3	6
4	8

Practice B

Time	Velocity
(s)	(m/s) [*]
0	8
1	6
2	4
3	2
4	0

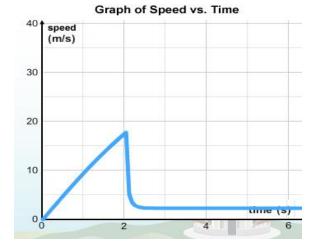


Figure 1.a

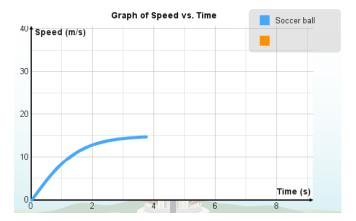


Figure 1.b

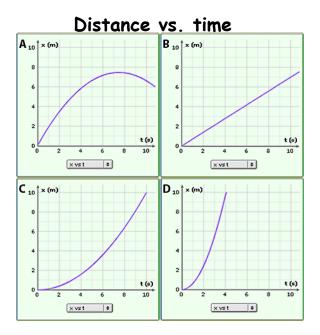
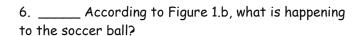


Figure 1.c



- A. the ball is moving with a constant speed
- B. the ball is slowing down
- C. the ball is speeding up
- D. the ball is speeding up then stopped
- 7. _____ Figure 1.a shows the graph of a falling object. What probably happened?
 - A. At 2 seconds the object fell off of a cliff
 - B. At 2 seconds a parachute opened on the object.
 - C. At 2 seconds the object hit the ground and stopped moving.
 - D. At 2 seconds the object stopped going up and started going down.
- 8. _____ Which of the graphs, in Figure 1.c, shows an object with a high acceleration?
 - A. Graph A
 - B. Graph B
 - C. Graph C
 - D. Graph D
- 9. _____ Using the speed-time graph (Figure 1.a), how fast was the ball moving after 1 second?
 - A. 1 m/s
 - B.5 m/s
 - C. 10 m/s
 - D. 20 m/s
- 10. _____ Using Figure 1.c, which graph shows an object with no acceleration at all?
 - A. Graph A
 - B. Graph B
 - C. Graph C
 - D. Graph D