

1. The graph shows the speed of a car as it drives along a straight road. At what time does the car have the greatest speed?



- At 4 s
- At 6 s
- At 8 s
- At 10 s

2. How does increasing the length of an inclined plane affect the effort force needed to move an object?

- Longer planes increase the effort needed.
- Shorter planes decrease the effort needed.
- Changing the length without effect the effort needed to move an object.
- The longer the ramp the less effort needed to move the object.

3. When pushed a 0.50 kg rubber ball with a force of 10 N, and a 1.00 kg rubber ball with a force of 10 N, the 0.50 kg ball has the greatest acceleration?

- Yes
- No
- Their accelerations were the same
- None of the above



4. When the balls in the diagram strike, the white ball has the same mass as the other balls. What is the white ball's speed after the collision? The other balls are at rest before the collision.

- The white ball stops and the gray ball moves at the same speed as the white ball.
- The white ball stops and the gray ball moves at the same speed as the white ball.
- The white ball stops and the gray ball moves at the same speed as the white ball.
- The white ball stops and the gray ball moves at the same speed as the white ball.

5. What is the first law is also called the law of inertia. Which of the following examples best illustrates the law of inertia?

- A rocket is propelled upward by gas pushing downward on it.
- A car moving at 10 m/s comes to a stop and the passengers lean forward.
- A small child is sitting in a car seat and the car seat is moving forward.
- A car moving at 10 m/s comes to a stop and the passengers lean forward.

6. Because the table provided, which of the objects has the greatest force?

Object	Mass	Acceleration
Object A	0.40 kg	5 m/s ²
Object B	0.400 kg	100 m/s ²
Object C	0.401 kg	1000 m/s ²

- Object A
- Object B
- Object C
- They all produce equal forces

7. When pushed with a 10 N force, a 1.00 kg ball has an acceleration of 10 m/s². When pushed with a 10 N force, a 2.00 kg ball has an acceleration of 5 m/s². When pushed with a 10 N force, a 3.00 kg ball has an acceleration of 3.33 m/s². When pushed with a 10 N force, a 4.00 kg ball has an acceleration of 2.50 m/s². When pushed with a 10 N force, a 5.00 kg ball has an acceleration of 2.00 m/s².

10 N	10 m/s ²	1.00 kg
10 N	5 m/s ²	2.00 kg
10 N	3.33 m/s ²	3.00 kg
10 N	2.50 m/s ²	4.00 kg
10 N	2.00 m/s ²	5.00 kg

8. Examine the graph provided. The graph shows the distance traveled by a ball over a certain amount of time. What happened to the ball after 4 seconds?



- The ball moved at a constant speed.
- The ball was accelerating.
- The ball changed direction.
- The ball stopped moving.

9. Which of the following examples BEST illustrates the law of inertia?

- A ball sitting on the floor.
- A car moving at 10 m/s comes to a stop.
- A car moving at 10 m/s comes to a stop and the passengers lean forward.
- A ball sitting on the floor.

10. What is the density of a substance that has a mass of 10 g and a volume of 10 ml?

- 1 g/ml
- 10 g/ml
- 0.1 g/ml
- 100 g/ml

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web this chapter introduces the fundamental concepts in diesel engine system design and provides an overview on the theory and approaches in this emerging technical field the central theme is how to design a good engine system performance specification at an early stage of the product development cycle