

Kinematics Exam Questions List

1. We drive a distance of 1 km at 16 km/h. Then we drive an additional distance of 1 km at 32 km/h. What is our average speed?

- 21.3 km/h (Answer)
- 19 km/h
- 25.3 km/h
- 20.1 km/h

2. A train covers 60 miles between 2 p.m. and 4 p.m. How fast was it going at 3 p.m.?

- 40 mph
- 30 mph (Answer)
- 35 mph
- 45 mph

3. How high can a human throw a ball if he can throw it with initial velocity 90 mph?

- 81.23 m
- 80.7 m
- 82.45 m
- 84.3 m (Answer)

4. It takes you 9.5 minutes to walk with an average velocity of 1.2 m/s to the north from the bus stop to museum entrance. What is your displacement?

- 5415 m (Answer)
- 5621 m
- 5143 m
- 5192 m

5. What is 3.3 slug in kilograms?

- 47.12 kg
- 52.21 kg
- 48.16 kg (Answer)
- 55.84 kg

6. The car drives straight off the edge of a cliff that is 57 m high. The investigator at the scene of the accident notes that the point of impact is 130 m from the base of the cliff. How fast was the car traveling when it went over the cliff?

- 35 m/s
- 36 m/s
- 37 m/s
- 38 m/s (Answer)