

Grade 12 Physics:

Acceleration

Answer the following problems on a separate sheet of paper. Show the formula used & all mathematical calculations.

- How long will it take a falling rock to reach a speed of 45.0 m/s?
4.59 s
- A car coming over a top of a hill at 30.0 m/s accelerates for 4.0 s at 0.70 m/s^2 . What is the increase in the speed of the car?
2.8 m/s
- A steel ball starting from rest at the top of a ramp reaches a speed of 4.2 m/s at the bottom of the ramp. If the time to roll down is 3.3 s, how long is the ramp?
6.9 m
- A lab cart with a ticker tape attached is given a push so that its speed is 0.50 m/s near the top of the slope. It accelerates at 0.14 m/s^2 for 0.65 s, reaching the bottom of the slope. What is the speed at the bottom of the slope?
0.59 m/s
- A car travelling at 30.0 m/s puts on its brakes and decelerates uniformly to a stop in 5.2 s. What is its stopping distance?
78 m
- A car, already travelling at 15.0 m/s, accelerates uniformly, travelling a distance of 200.0 m in the next 11.0 s. What will be the final speed?
21.4 m/s
- If you lived on a planet where the acceleration of gravity is 3.4 m/s^2 , how long would it take for an object to fall 1000.0 m, air resistance ignored?
24.2 s
- A potted plant falls from the balcony of an apartment 40.0 m above the ground.
 - How long will it take to reach the ground? **2.9 s**
 - What will be its speed on impact? **28.4 m/s**
- A jet plane flying at 210.0 m/s goes into a vertical dive accelerating at 14.0 m/s^2 for 3.0 s.
 - How far does it dive during this time? **690 m**
 - What will be the final speed? **252.0 m/s**
- A large jet must reach a speed of 100.0 m/s before it can generate enough lift to leave the ground. If its engine can produce a maximum acceleration of 3.0 m/s^2 , what is the minimum length of runway needed?
 $1.7 \times 10^3 \text{ m}$

Physical Science Section 11 3 Acceleration Answers

Michal Rosen-Zvi



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