

Forces and Motion: Speed, Velocity, and Acceleration ANSWER KEY

EQUATIONS:

Speed:

Velocity:

Acceleration:

Force:

Sample Problems:

A girl travels 20 miles on her bicycle. The trip takes 2 hours. Express her speed in miles/hr.

1. First, we identify the variables in our problem:

- distance (d) = 20 miles
- time (t) = 2 hours

2. We place the variables in their correct position in the speed formula

- $S = d/t$
- $S = 20 \text{ mi}/2 \text{ hour}$

3. Perform the calculation and express the resulting speed value with the appropriate unit:

- $S = 10 \text{ mi/hr}$

A car starts from a stoplight and is traveling with a velocity of 10 m/sec east in 20 seconds. What is the acceleration of the car?

1. First we identify the information that we are given in the problem:

- $v_f = 10 \text{ m/sec}$
- $v_o = 0 \text{ m/sec}$
- time = 20 seconds

2. Then we insert the given information into the acceleration formula:

- $a = (v_f - v_o)/t$
- $a = (10 \text{ m/sec} - 0 \text{ m/sec})/20 \text{ sec}$

3. Solving the problem gives an acceleration value of 0.5 m/sec^2 .

Now try on your own:

1. What is the speed of a rocket that travels 9000 meters in 12.12 seconds? **742.57 m/s**
2. What is the speed of a jet plane that travels 528 meters in 4 seconds? **132 m/s**
3. How long will your trip take (in hours) if you travel 350 km at an average speed of 80 km/hr? **4.38 h**
4. How far (in meters) will you travel in 3 minutes running at a rate of 6 m/s? **1,080 m**
5. A trip to Cape Canaveral, Florida takes 10 hours. The distance is 816 km. Calculate the average speed. **81.6 km/h**

Speed And Acceleration Answer Guide

Lingjun Ying



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