

Average Speed and Acceleration Practice Problems

a = acceleration
t = time
r = speed/rate
d = distance
 v_i = initial velocity
 v_f = final velocity

$$d = rt$$

$$r = \frac{d}{t}$$

$$t = \frac{d}{r}$$

$$a = \frac{v_f - v_i}{t}$$

$$t = \frac{v_f - v_i}{a}$$

Complete the word problems below using the formulas provided. Please show your work in the area provided.

1. A plane travels from Pittsburgh to Cleveland in 2 hours. It maintains an average speed of 100 miles per hour. How far apart are these cities?
2. A car traveling 60 miles per hour needs to go 350 miles. How long will it take to reach her destination?
3. A dog ran 10 miles home. It took him 50 minutes to get there. How fast was he running? (Have your answer in miles per hour) HINT: 50 minutes = 0.83 hours
4. A marathon runner completes a 12.1 mile race in 1.2 hours. How fast did he run?
5. A train traveling 50 miles per hour leaves the station in Detroit and travels 300 miles to Boston. How long did it take?
6. What is the average speed of a car that traveled 300 miles in 5.5 hours?
7. How much time would it take for the sound of thunder to travel 1,500 meters if sound travels at a speed of 330 meters per second?

Acceleration And Average Speed Worksheet Answers

RD Boyd



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