

## Rate of speed worksheet

Solve each using the formula  $D = r \cdot t$ . **SHOW WORK**

- 1) On a vacation, Linda's family traveled 495 miles at 55 mph, how long did the trip take?
  
- 2) If Billy can ride his bike 15 mph for 45 min, how far will he go? (Hint: change min. to hours 1<sup>st</sup>)
  
- 3) If a NASCAR driver finishes a 600 mile race in 3 hours, what was his average speed in miles per hour?
  
- 4) The British-made *Thrust SSC* is the fastest car on earth. It can travel 380 miles in 30 minutes. What is the cars speed in miles per hour?
  
- 5) The *Lockheed SR71* is a plane that can travel at a speed of 2200 mph. Based on this speed how far can the plane travel in...
  - a) 7 hours
  - b) 1.5 hours
  - c) 20 hours
  
- 6) Usain Bolt is considered the fastest man alive running the 100 meter race in 9.63 seconds. Find his rate of speed in meters per second.
  
- 7) A bowling ball is rolled at a rate of 34 feet per second. The bowling lane is 60 feet long. How many seconds does it take for the bowling ball to reach the pins?
  
- 8) In the London Olympics, the marathon gold medalist finished the 26.22 mile race with an average speed of 12.3 mph. The current world record holder in the marathon finished with an average speed of 12.7 mph. What is the difference in minutes between the two races? (Hint: find the two times in hours first then change to minutes.)
  
- 9) During basketball practice, a team must run the length of the floor 4 times in 30 seconds. The court is 94 feet long. What must their rate of speed be in feet per second in order to make the time?
  
- 10) Superheroes Liza and Tamar leave the same camp and run in opposite directions. Liza runs 1 mile per second (mps) and Tamar runs 2 mps. How far apart are they in miles after 1 hour?