

# Speed Worksheet

## Physical Science Chapter 12

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period #: \_\_\_\_\_

Use the following equations to answer the following speed questions. Show your work.

$$\text{Distance} = \text{Time} \times \text{Speed}$$

$$\text{Time} = \text{Distance} / \text{Speed}$$

$$\text{Speed} = \text{Distance} / \text{Time}$$

1. If Steve throws the football 50 meters in 3 seconds, what is the average speed (velocity) of the football?
  
  
  
  
  
  
  
  
  
  
2. If it takes Ashley 3 seconds to run from the batter's box to first base at an average speed (velocity) of 6.5 meters per second, what is the distance she covers in that time?
  
  
  
  
  
  
  
  
  
  
3. Bart ran 5,000 meters from the police at an average speed (velocity) of 6 meters/second before he got caught. How long did he run?
  
  
  
  
  
  
  
  
  
  
4. If Justin races his Chevy S-10 at the track for 2,560 meters in 60 seconds, what is his average speed (velocity)?
  
  
  
  
  
  
  
  
  
  
5. If Mike rides his motorcycle at an average speed (velocity) of 20 meters/second for 500 seconds, how far does he ride?

6. Sarah backstrokes at an average speed of 8 meters per second. How long will it take her to complete a 200-meter race?
  
  
  
  
  
  
  
  
  
  
7. Lauren's car was detected exceeding the posted speed limit of 60 kilometers per hour. How many kilometers per hour would she have been traveling over the limit if she had covered a distance of 10 kilometers in 5 minutes?
  
  
  
  
  
  
  
  
  
  
8. Tina's calculations of the tarantula found that the spider was able to cover 20 centimeters in 5 seconds. What was the average speed of the spider?
  
  
  
  
  
  
  
  
  
  
9. An aircraft carrier made a trip to Guam. The trip took four hours at an average speed of 6 km/h. How far did the ship travel?
  
  
  
  
  
  
  
  
  
  
10. A passenger plane made a trip to Las Vegas, flying at an average speed of 432 mph. How much time did the trip take if the plane traveled 616 miles?
  
  
  
  
  
  
  
  
  
  
11. A cattle train left Miami at noon, traveling 45 km/h. At what time will the train have traveled 195 km?



17. Gary's dog Riley likes to race his owner's SUV out to the end of the neighborhood and back. If it's one half mile out to the end of the neighborhood, what's Riley's speed if it takes him two minutes to make the round trip?
18. Colin's driveway is 50 km long. When he arrives home from his walk, he sees a woolly caterpillar starting to crawl up the driveway. A half hour later, when he leaves again, he sees the caterpillar has crawled half the length of the driveway. Assuming the caterpillar only moved in a straight line up the driveway, what was its average speed in km/h?
19. Miss Grossman is crocheting a scarf and she wants it to be two meters long. If it takes her five minutes to crochet one cm of length, how long will it take her to complete the scarf?
20. Jed rolls a marble at an average speed of one meter/second across the floor of his bedroom, which is four meters long. How long will it take the marble to cross the entire room? What is the marble's average speed in km/h?