Name:	Date:	

Speed Machine Worksheets Answers



- Light and radio waves travel through a vacuum in a straight line at a speed of very nearly 3.00 × 10 m/s. How far is light year (the distance light travels in a year)? Answer: 9.50 x 105 m.
- A runner makes one lap around a 200 m track in a time of 25.0 s. What was the runner's average speed?
 Answer: 8.0 m/s
- A motorist travels 406 km during a 7.0 hr period.
 What was the average speed in km/hr and m/s?
 Answers: 58 km/hr, 16 m/s.
- A bullet is shot from a rifle with a speed of 720 m/s.
 What time is required for the bullet to strike a target 3240 m away? Answer: 4.5s.
- 5. Light from the sun reaches the earth in 8.3 minutes. The speed of light is 3.0×10 m/s. In kilometers, how far is the earth from the sun? Answer: 1.5×10 km.