

Average Speed Worksheet

1. What is the average velocity of a truck that travels 1459 km in 13.9 hours?
2. Recently a new world record in the 100 m dash was set by Tim Montgomerie. He ran that length in 9.78 s, what was his average speed in m/s? km/h?
3. Before leaving her house Mary records her car's odometer reading (how many km the car has travelled so far) of 33289 km. Mary leaves her house at 11:15 am and returns at 1:45 pm. When she returns her odometer reads 33625 km. What was the average velocity of her drive in km/h? m/s?
4. The distance between Summerside and Charlottetown P.E.I. is about 77.0 km. Mr. MacDonald has traveled between these two cities many times and it usually takes about 40.0 min. a) What is Mr. MacDonald's average velocity? b) During the trip the speed limit is 90.0 km/h, what fine would Mr. MacDonald have to pay if the it costs him \$7.00 for every km over the speed limit?
5. A police car rushes to the scene of a crime at 135 km/h. The crime scene is 35.75 km away, how many hours does it take the officer to get to the crime scene? How many minutes?
6. A train is 350 km from its destination of Union Station in Toronto. How many hours until the train arrives if its average speed is 65 km/h?
7. Suppose a car is travelling at 100 km/h. a) What will its new speed be if it travels twice the distance in the same amount of time? b) What is the car's speed if it travels the same distance in twice the time? c) What is the car's new speed if it travels the same distance in one-third the original time? d) What is the new speed of the car if it travels five times the original distance in four times the original time?
8. Light from the Sun travels 300,000 km/s. How many minutes does it take light from the Sun to reach the Earth 150,000,000 km away?

Answer List

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| 1. 105 km/h | 2. 10.2 m/s, 36.8 km/h |
| 3. 134.4 km/h, 37 m/s | 4. a) 115.5 km/h b) \$178.5 |
| 5. 0.265 h, 15.9 min | 6. 5.38 h |
| 7. a) 200 km/h b) 50 km/h c) 300 km/h, d) 125 km/h | 8. 8.3 min |