

Distance, Speed and Time Practice

1. Daniel gets his license and decides to show off for some other kids so he tears down Hampton Road at 97 km/h. How much time would it take him to travel 6.0 km? ($t = 0.062 \text{ h}$)
2. Jasper and Sarah to try out for the cross country running team. How far would they get if they can run 36 km/h for 5 min before collapsing? ($d = 3 \text{ km}$)
3. Lucy gets a drive to school but the car gets a flat tire on the way. She doesn't want to be late for science class so runs the rest of the way. If she is 5.0 km away and can run 15 km/h, how long will it take her to get there? ($d = 0.33 \text{ h}$)
4. How much time would it take Maria to walk 2 km to Tim's for a hot breakfast sandwich if she walked at a rate of 4.5 km/h? ($t = 0.4 \text{ h}$)
5. Mackighen foolishly decides to skip science class but then sees Ms. Jensen in the hallway so he takes off running. What is his average velocity if he goes 100 m down the hallway in 9.83 s? Give your answer in m/s and km/h. (10.2 m/s ; 36.6 km/h)
6. Nathan is staying over at Nick's house and they are coming home late, past their curfew. As they sneak in quietly, trying not to wake up Nick's mom, they slink up the stairs moving 10.7 m in 26.8 s. Find their speed. (0.399 m/s)
7. The night before a big science quiz, Jordan, Jack, and Mack decide to study together but instead end up watching chick flicks all night long to get in touch with their feminine side. Now they don't want to write the quiz and are dragging themselves to class. If their speed is 0.2 m/s, how far will they move in 28 s? (5.6 m)
8. Jersey has borrowed her parents' car without permission and is driving without a license. She sees them out walking and realizes that they will be home in about 45 seconds. She is 500 m from home and driving 25 m/s. Will she get to the driveway before they do? (20 s , yes)
9. Some girls are skating at the QPlex and Logan thinks one of them is cute so he decides to impress her by doing some tricks. Unfortunately, he is staring at her and crashes into Ava – an innocent bystander. He falls, making a fool of himself. Calculate how far he will slide on the ice if he were skating at 12 m/s and slid for 2.5 s. (30 m)
10. Oliver and a friend are pretty pumped about a new video game being released and can't wait to buy it. They run across the parking lot to EB Games at 34 m/s. If it takes them 2.5 s to reach the store, how far away was the car parked? (85 m)