

## Average Speed

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1. Sonia takes a 6 hour long flight from New York to London, covering a distance of 3,500 mi. She then takes a connecting flight to Scotland 400 mi away, which takes another hour. What was Sonia's average speed during the trip?
2. Donte bicycles from home to the grocery store at a speed of 10mph for 15 minutes. He then goes to his friend Alyssa's house; however his tire blows out, so he decides to walk the rest of the way. It takes him 40 minutes at a walking speed of 4 mph.
  - (a) What was Donte's average speed during the trip from home to Alyssa's house?
  - (b) If Donte then walks back to the grocery store at 4mph, what was his average speed for the entire distance from home to the grocery store, to Alyssa's house, then back to the grocery store?
3. Michael works at an office 15 miles away. He takes the bus there in 45 minutes, but gets a a ride back from his coworker in 30 minutes. What was his average speed for the entire trip from home to office and back?