1. Ashley and her friends were heading down to the beach for spring break. After nodding on and off for about an hour or so, Ashley woke up around 3:00 am and noticed that they were stuck in traffic at mile marker 16. Around 5:00 after slowly making it through all the traffic, they decided to go to stop at Sheetz and she noticed they we by mile marker 80. How fast had the car been going?
2. A driver traveling along a busy highway noticed that at 2:00 PM he was passing mile marker 24. At 3:30 he saw that he was passing mile marker 96. At what rate of speed was he traveling?
3. At 11:00 am an athlete in the Iron Man bike race passed mile marker 8.5. At 12:30 PM she passed mile marker 34. At what rate of speed was she riding?
4. Francis has just purchased a new quad so that he can travel through the woods near his home. After taking it down his driveway for the first time, he decided to test how fast it could go. He found that at 1:00 pm he was passing a hunting cabin that is 3 miles from his home. By 2:15 he was passing a race track that is 28 miles from his home. What was his speed?
5. During a road race a car passed mile marker 28 at 4:00 pm. Fifteen minutes later it was passing mile marker 55. How fast was the car traveling.
6. A man traveling along a highway noticed that at 10:00 AM he was 12 miles away from Pittsburgh. At 11:12 AM he was 96 miles away from Pittsburgh. How fast was he traveling?
7. Mark was riding his scooter around town. At 7:00AM he was 4 miles away from his home. At 9:00AM he was 22 miles away. How fast was Mark going?
8. A group of Huskies were pulling a sled on a run. At 2:00 the dogs had gone a total of 8 miles. The dogs took a break and started up again two hours later. By 6:00, the dogs had ended up going a total of 12 miles. How fast had the dogs been running?
9. Two cars were racing down a track. The car that won the race was clocked at 4:30PM at mile marker 30 and at 5:00PM it was at mile marker 60. How fast was the car going?

10. Janet was late to an important meeting and was traveling very fast down the turnpike. At 10:30AM a cop at mile marker 20 clocked her speed. At 11:00AM, a cop at mile marker 60 also clocked her. The first cop was nice, but unfortunately, Janet was pulled over by the second cop. What speed did the cop write Janet up for going? By the way, she was still late to her meeting.

Question 10 Modified for advanced:

Janet was late to an important meeting and was traveling very fast down the turnpike. At 10:30AM a cop at mile marker 20 clocked her speed. At 11:00, a cop at mile marker 60 also clocked her. The first cop was nice, but unfortunately, Janet was pulled over by the second cop. *If the speed limit was 35, by how much did the cop say Janet was over the speed limit?* By the way, she was still late to her meeting.

1. Ashley and her friends were heading down to the beach for spring break. After nodding on and off for about an hour or so, Ashley woke up around 3:00 am and noticed that they were stuck in traffic at mile marker 16. Around 5:00 after slowly making it through all the traffic, they decided to go to stop at Sheetz and she noticed they we by mile marker 80. How fast had the car been going? (32 mph)
2. A driver traveling along a busy highway noticed that at 2:00 PM he was passing mile marker 24. At 3:30 he saw that he was passing mile marker 96. At what rate of speed was he traveling? (48 mph)
3. At 11:00 am an athlete in the Iron Man bike race passed mile marker 8.5. At 12:30 PM she passed mile marker 34. At what rate of speed was she riding? (17 mph)
4. Francis has just purchased a new quad so that he can travel through the woods near his home. After taking it down his driveway for the first time, he decided to test how fast it could go. He found that at 1:00 pm he was passing a hunting cabin that is 3 miles from his home. By 2:15 he was passing a race track that is 28 miles from his home. What was his speed? (13 mph)
5. During a road race a car passed mile marker 28 at 4:00 pm. Fifteen minutes later it was passing mile marker 55. How fast was the car traveling. (108 mph)
6. A man traveling along a highway noticed that at 10:00 AM he was 12 miles away from Pittsburgh. At 11:12 AM he was 96 miles away from Pittsburgh. How fast was he traveling? (70 mph)
7. Mark was riding his scooter around town. At 7:00AM he was 4 miles away from his home. At 9:00AM he was 22 miles away. How fast was Mark going? (9 mph)
8. A group of Huskies were pulling a sled on a run. At 2:00 the dogs had gone a total of 8 miles. The dogs took a break and started up again two hours later. By 6:00, the dogs had ended up going a total of 12 miles. How fast had the dogs been running? (2 mph)
9. Two cars were racing down a track. The car that won the race was clocked at 4:30PM at mile marker 30 and at 5:00PM it was at mile marker 60. How fast was the car going? (60 mph)

10. Janet was late to an important meeting and was traveling very fast down the turnpike. At 10:30AM a cop at mile marker 20 clocked her speed. At 11:00AM, a cop at mile marker 60 also clocked her. The first cop was nice, but unfortunately, Janet was pulled over by the second cop. What speed did the cop write Janet up for going? By the way, she was still late to her meeting. (80 mph)

Question 10 Modified for advanced student:

Janet was late to an important meeting and was traveling very fast down the turnpike. At 10:30AM a cop at mile marker 20 clocked her speed. At 11:00, a cop at mile marker 60 also clocked her. The first cop was nice, but unfortunately, Janet was pulled over by the second cop. *If the speed limit was 35, by how much did the cop say Janet was over the speed limit?* By the way, she was still late to her meeting. (45 mph)