

Traveling by the Numbers Answer Key

1. Eric rides his bike 2 miles to school at 12 miles per hour. Tanya walks $\frac{3}{4}$ mile at 3 miles per hour. They both must reach school at 7:45 A.M. Who needs to leave home first?
 - b. Tanya

Use this information for Questions 2, 3, and 4:

The turnpike has 5 exits. Exit 1 is at the beginning, Exit 2 is at mile 15, Exit 3 is at mile 35, Exit 4 is at mile 45, and Exit 5 is at mile 70. The toll costs \$0.30 per mile.

2. Monday through Friday, Manuel gets on at Exit 2 and gets off at Exit 4 to go to work, and then returns home the same way. What is his total daily mileage?
 - b. 60 miles
3. What does Manuel pay in tolls each week?
 - c. \$90.00
4. Ma Shou Bin gets on at Exit 5 and gets off at Exit 2. Returning home, Mr. Ma gets on at Exit 2 and gets off at Exit 3, travels side roads, and gets on the turnpike again at Exit 4. He gets off at Exit 5. What is his total turnpike mileage?
 - a. 100 miles

Use this information for Questions 5, 6, and 7:

Molly is going on vacation. She will travel from Albany, New York, to Washington, D.C., rent a car for 3 days, and return to Albany. If she goes by train, the cost is \$210 each way. A rental car costs \$50 per day. If she goes by airplane, the round-trip cost is \$395, and she can get a 10% discount on the cost of renting a car.

5. What are Molly's total travel costs if she travels by train?
 - c. \$570
6. How much money does Molly save on the rental car if she travels by air?
 - b. \$15
7. What are Molly's total travel costs if she travels by air?
 - b. \$530

Traveling by the Numbers Answer Key (continued)

Use this information for Questions 8, 9, and 10:

Jamal is training for a long-distance bike ride. He rides every day. The first week, he rides 12 miles at a time, twice a day. The second week, he rides 18 miles at a time, twice a day. The third week, Jamal rides 24 miles at a time, twice a day. The fourth week, he rides 52 miles at a time, once a day.

8. How many miles does Jamal ride altogether?
 - b. 1,120 miles

9. If Jamal averages 12 miles per hour the first week, how many hours does he ride that week?
 - b. 14 hours

10. During the fourth week, Jamal averages 14 miles per hour. How many hours does he ride that week?
 - b. 26 hours