

1. A plane flies 900 miles with a tail wind in 3 hours. It takes the same plane 5 hours to fly the 900 miles when flying against the wind. What is the plane's speed in still air?

[A] 60 mph [B] 240 mph
[C] 300 mph [D] 270 mph

[1] _____

2. A plane flies 600 miles with a tail wind in 2 hours. It takes the same plane 3 hours to fly the 600 miles when flying against the wind. What is the plane's speed in still air?

[A] 50 mph [B] 250 mph
[C] 300 mph [D] 200 mph

[2] _____

3. A plane flies 600 miles with a tail wind in 2 hours. It takes the same plane 3 hours to fly the 600 miles when flying against the wind. What is the plane's speed in still air?

[A] 275 mph [B] 300 mph
[C] 250 mph [D] 50 mph

[3] _____

4. If a car traveled 275 miles in 5.25 hours, how far would it travel in 1 hour? Round to the nearest tenth.

[A] 0.523 [B] 0.524
[C] 52.3 [D] 52.4

[4] _____

5. Randy drove from his home to Dallas at an average speed of 50 mph. On the return trip, he drove at an average speed of 55 mph. The return trip took Randy 1 hour less than the trip to Dallas. How many total hours did he travel?

[5] _____

6. Gilbert and Brian drove a total of 604 miles in 11.6 hours. Gilbert drove the first part of the trip and averaged 45 miles per hour. Brian drove the remainder of the trip and averaged 65 miles per hour. For what length of the time did Gilbert drive?

[6] _____

7. Jan and Chris drove a total of 499 miles in 10.4 hours. Jan drove the first part of the trip and averaged 45 miles per hour. Chris drove the remainder of the trip and averaged 55 miles per hour. For what length of the time did Jan drive?

[7] _____

8. Leslie and Kathy drove a total of 354 miles in 9.8 hours. Leslie drove the first part of the trip and averaged 35 miles per hour. Kathy drove the remainder of the trip and averaged 45 miles per hour. For what length of the time did Leslie drive?

[8] _____

9. Fran drove 250 miles on her vacation. She drove an average of 1.1 times faster on the second half of her trip than she did the first half of her trip. Write a simplified expression for the time she spent driving.

[9] _____

10. Mrs. Walker drove to her sister's home, which was a distance of 679 miles. If she completed the trip in 13 hours of nonstop driving, did she comply with the 55 mi/h speed limit? Provide an explanation for your answer.

[10] _____

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[1] B

[2] B

[3] C

[4] D

[5] 21 hours

[6] 7.5 hours

[7] 7.3 hours

[8] 8.7 hours

[9] $\frac{2625}{11x}$

[10] Yes, because $13 : 679$ is equal to about $1 : 52$.