

Name _____

Solve. Section 5.6A. The time is equal for these and the distance is given. Wind speed is unknown.

1) A plane flies 500 miles with the wind and 300 miles against the wind in the same length of time. If the speed of the wind is 23 mph, what is the speed of the plane in still air? 1) _____

2) A plane flies 490 miles with the wind and 350 miles against the wind in the same length of time. If the speed of the wind is 20 mph, what is the speed of the plane in still air? 2) _____

3) A plane flies 500 miles with the wind and 340 miles against the wind in the same length of time. If the speed of the wind is 24 mph, what is the speed of the plane in still air? 3) _____

4) A plane flies 440 miles with the wind and 320 miles against the wind in the same length of time. If the speed of the wind is 27 mph, what is the speed of the plane in still air? 4) _____

5) A plane flies 450 miles with the wind and 300 miles against the wind in the same length of time. If the speed of the wind is 27 mph, what is the speed of the plane in still air? 5) _____

6) A plane flies 400 miles with the wind and 320 miles against the wind in the same length of time. If the speed of the wind is 22 mph, what is the speed of the plane in still air? 6) _____

7) A plane flies 460 miles with the wind and 310 miles against the wind in the same length of time. If the speed of the wind is 30 mph, what is the speed of the plane in still air? 7) _____

Solve. Section 5.6A like #9 & 10. The time is equal for these and the distance is given, but the current speed is unknown.

- 8) A boat can go 25 mph in still water. It takes as long to go 60 miles upstream as it does to go 8) _____
downstream 90 miles. How fast is the current?

Solve. Section 5.6A like #9 & 10.

- 9) A boat can go 15 mph in still water. It takes as long to go 120 miles upstream as it does to 9) _____
go downstream 180 miles. How fast is the current?

- 10) A boat can go 35 mph in still water. It takes as long to go 270 miles upstream as it does to 10) _____
go downstream 360 miles. How fast is the current?

- 11) A boat can go 60 mph in still water. It takes as long to go 350 miles upstream as it does to 11) _____
go downstream 400 miles. How fast is the current?

- 12) A boat can go 56 mph in still water. It takes as long to go 120 miles upstream as it does to 12) _____
go downstream 160 miles. How fast is the current?

- 13) A boat can go 91 mph in still water. It takes as long to go 180 miles upstream as it does to 13) _____
go downstream 210 miles. How fast is the current?

- 14) A boat can go 153 mph in still water. It takes as long to go 480 miles upstream as it does to 14) _____
go downstream 540 miles. How fast is the current?

Solve.

- 15) A plane flies 440 miles with the wind and 350 miles against the wind in the same length of 15) _____
time. If the speed of the wind is 27 mph, what is the speed of the plane in still air?

Answer Key

Testname: WORKSHEET5.6A_SOLVINGRATEPROBLEMS_V02

- 1) 92 mph
- 2) 120 mph
- 3) 126 mph
- 4) 171 mph
- 5) 135 mph
- 6) 198 mph
- 7) 154 mph
- 8) 5 mph
- 9) 3 mph
- 10) 5 mph
- 11) 4 mph
- 12) 8 mph
- 13) 7 mph
- 14) 9 mph
- 15) 237 mph