

Name \_\_\_\_\_

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

1) 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 25 mph, what is the speed of the plane in still air? 1) \_\_\_\_\_

2) A plane flies 450 miles with the wind and 350 miles against the wind in the same length of time. If the speed of the wind is 25 mph, what is the speed of the plane in still air? 2) \_\_\_\_\_

3) A plane flies 400 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 330 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? 4) \_\_\_\_\_

5) A plane flies 420 miles with the wind and 320 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? 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 25 mph, what is the speed of the plane in still air? 6) \_\_\_\_\_

7) A plane flies 410 miles with the wind and 330 miles against the wind in the same length of time. If the speed of the wind is 28 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 49 mph in still water. It takes as long to go 90 miles upstream as it does to go downstream 120 miles. How fast is the current? 8) \_\_\_\_\_

**Solve. Section 5.6A like #9 & 10.**

- 9) A boat can go 119 mph in still water. It takes as long to go 720 miles upstream as it does to go downstream 810 miles. How fast is the current? 9) \_\_\_\_\_

- 10) A boat can go 54 mph in still water. It takes as long to go 160 miles upstream as it does to go downstream 200 miles. How fast is the current? 10) \_\_\_\_\_

- 11) A boat can go 120 mph in still water. It takes as long to go 280 miles upstream as it does to go downstream 320 miles. How fast is the current? 11) \_\_\_\_\_

- 12) A boat can go 56 mph in still water. It takes as long to go 180 miles upstream as it does to go downstream 240 miles. How fast is the current? 12) \_\_\_\_\_

- 13) A boat can go 15 mph in still water. It takes as long to go 80 miles upstream as it does to go downstream 120 miles. How fast is the current? 13) \_\_\_\_\_

- 14) A boat can go 45 mph in still water. It takes as long to go 60 miles upstream as it does to go downstream 90 miles. How fast is the current? 14) \_\_\_\_\_

**Solve.**

- 15) A plane flies 420 miles with the wind and 350 miles against the wind in the same length of time. If the speed of the wind is 26 mph, what is the speed of the plane in still air? 15) \_\_\_\_\_

## Answer Key

Testname: WORKSHEET5.6A\_SOLVINGRATEPROBLEMS\_V01

- 1) 150 mph
- 2) 200 mph
- 3) 296 mph
- 4) 140 mph
- 5) 222 mph
- 6) 225 mph
- 7) 259 mph
- 8) 7 mph
- 9) 7 mph
- 10) 6 mph
- 11) 8 mph
- 12) 8 mph
- 13) 3 mph
- 14) 9 mph
- 15) 286 mph