

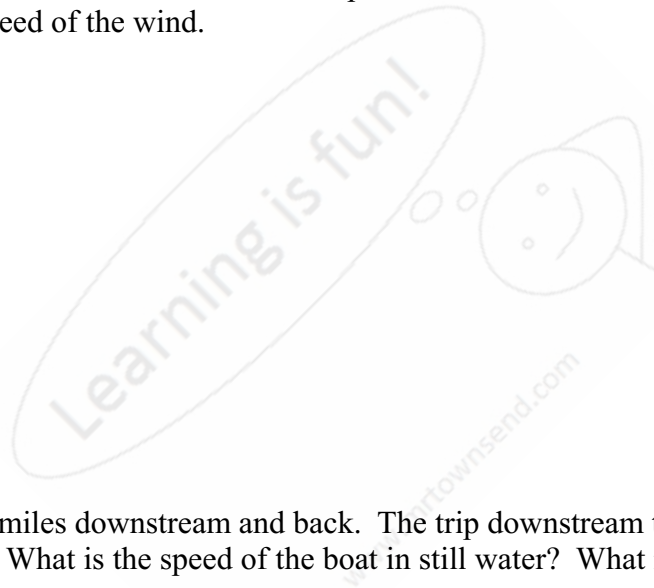
- 1) Asanji and Nicole each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Asanji spent \$70 on 7 ft<sup>2</sup> of grass sod and 7 bunches of ornamental grass. Nicole spent \$64 on 2 ft<sup>2</sup> of grass sod and 13 bunches of ornamental grass. What is the cost of one ft<sup>2</sup> of grass sod and the cost of one bunch of ornamental grass?
- 2) Perry and Willie are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Perry sold 10 rolls of plain wrapping paper and 7 rolls of holiday wrapping paper for a total of \$198. Willie sold 16 rolls of plain wrapping paper and 11 rolls of holiday wrapping paper for a total of \$314. Find the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper.
- 3) A boat traveled 95 miles downstream and back. The trip downstream took 5 hours. The trip back took 19 hours. Find the speed of the boat in still water and the speed of the current.

4) Joe and John are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and packages of crocus bulbs. Joe sold 13 packages of tulip bulbs and 16 packages of crocus bulbs for a total of \$380. John sold 3 packages of tulip bulbs and 9 packages of crocus bulbs for a total of \$162. Find the cost each of one package of tulips bulbs and one package of crocus bulbs.

5) Ming and John are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Ming sold 8 small boxes of oranges and 15 large boxes of oranges for a total of \$351. John sold 10 small boxes of oranges and 8 large boxes of oranges for a total of \$256. What is the cost each of one small box of oranges and one large box of oranges?

6) Arjun and Maria are selling pies for a school fundraiser. Customers can buy cherry pies and pumpkin pies. Arjun sold 2 cherry pies and 12 pumpkin pies for a total of \$248. Maria sold 5 cherry pies and 9 pumpkin pies for a total of \$242. Find the cost each of one cherry pie and one pumpkin pie.

- 7) A plane traveled 910 miles to Athens and back. The trip there was with the wind. It took 10 hours. The trip back was into the wind. The trip back took 26 hours. What is the speed of the plane in still air? What is the speed of the wind?
- 8) A plane traveled 2304 miles to Havana and back. The trip there was with the wind. It took 12 hours. The trip back was into the wind. The trip back took 16 hours. Find the speed of the plane in still air and the speed of the wind.
- 9) A boat traveled 228 miles downstream and back. The trip downstream took 12 hours. The trip back took 76 hours. What is the speed of the boat in still water? What is the speed of the current?



## Answers to

- 1)  $\text{ft}^2$  of grass sod: \$6, bunch of ornamental grass: \$4
- 2) roll of plain wrapping paper: \$10, roll of holiday wrapping paper: \$14
- 3) boat: 12 mph, current: 7 mph
- 4) package of tulips bulbs: \$12, package of crocus bulbs: \$14
- 5) small box of oranges: \$12, large box of oranges: \$17
- 6) cherry pie: \$16, pumpkin pie: \$18
- 7) plane: 63 mph, wind: 28 mph
- 8) plane: 168 mph, wind: 24 mph
- 9) boat: 11 mph, current: 8 mph

