

## Two Variable Word Problems

- 1) A plane traveled 500 miles to Jacksonville and back. The trip there was with the wind. It took 5 hours. The trip back was into the wind. The trip back took 10 hours. Find the speed of the plane in still air and the speed of the wind.
- 2) A boat traveled 325 miles downstream and back. The trip downstream took 13 hours. The trip back took 65 hours. Find the speed of the boat in still water and the speed of the current.
- 3) A boat traveled 250 miles downstream and back. The trip downstream took 10 hours. The trip back took 50 hours. Find the speed of the boat in still water and the speed of the current.
- 4) A plane traveled 588 miles to Athens and back. The trip there was with the wind. It took 7 hours. The trip back was into the wind. The trip back took 14 hours. Find the speed of the plane in still air and the speed of the wind.
- 5) A boat traveled 264 miles downstream and back. The trip downstream took 11 hours. The trip back took 66 hours. What is the speed of the boat in still water? What is the speed of the current?
- 6) A boat traveled 207 miles downstream and back. The trip downstream took 9 hours. The trip back took 69 hours. What is the speed of the boat in still water? What is the speed of the current?
- 7) A boat traveled 161 miles downstream and back. The trip downstream took 7 hours. The trip back took 23 hours. Find the speed of the boat in still water and the speed of the current.
- 8) A plane traveled 1800 miles to San Francisco and back. The trip there was with the wind. It took 10 hours. The trip back was into the wind. The trip back took 12 hours. What is the speed of the plane in still air? What is the speed of the wind?
- 9) A boat traveled 198 miles downstream and back. The trip downstream took 9 hours. The trip back took 11 hours. Find the speed of the boat in still water and the speed of the current.
- 10) A boat traveled 64 miles downstream and back. The trip downstream took 4 hours. The trip back took 8 hours. What is the speed of the boat in still water? What is the speed of the current?
- 11) Emily's school is selling tickets to a fall musical. On the first day of ticket sales the school sold 1 adult ticket and 12 child tickets for a total of \$172. The school took in \$176 on the second day by selling 2 adult tickets and 12 child tickets. What is the price each of one adult ticket and one child ticket?
- 12) Jasmine's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 4 senior citizen tickets and 1 child ticket for a total of \$44. The school took in \$80 on the second day by selling 4 senior citizen tickets and 4 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 13) Julia's school is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 14 senior citizen tickets and 12 child tickets for a total of \$236. The school took in \$114 on the second day by selling 6 senior citizen tickets and 6 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 14) Eugene's school is selling tickets to a choral performance. On the first day of ticket sales the school sold 13 senior citizen tickets and 5 child tickets for a total of \$227. The school took in \$185 on the second day by selling 10 senior citizen tickets and 5 child tickets. What is the price each of one senior citizen ticket and one child ticket?
- 15) Julio's school is selling tickets to a choral performance. On the first day of ticket sales the school sold 14 adult tickets and 5 child tickets for a total of \$101. The school took in \$55 on the second day by selling 7 adult tickets and 3 child tickets. What is the price each of one adult ticket and one child ticket?
- 16) The school that Joe goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 7 adult tickets and 7 student tickets for a total of \$161. The school took in \$234 on the second day by selling 6 adult tickets and 14 student tickets. What is the price each of one adult ticket and one student ticket?

- 17) Kim's school is selling tickets to a play. On the first day of ticket sales the school sold 8 adult tickets and 13 child tickets for a total of \$155. The school took in \$150 on the second day by selling 10 adult tickets and 10 child tickets. Find the price of an adult ticket and the price of a child ticket.
- 18) The school that Mark goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 12 senior citizen tickets and 12 child tickets for a total of \$120. The school took in \$62 on the second day by selling 5 senior citizen tickets and 9 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 19) The school that James goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 2 senior citizen tickets and 9 child tickets for a total of \$120. The school took in \$185 on the second day by selling 5 senior citizen tickets and 11 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 20) The school that Perry goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 11 adult tickets and 13 child tickets for a total of \$207. The school took in \$108 on the second day by selling 4 adult tickets and 8 child tickets. What is the price each of one adult ticket and one child ticket?
- 21) Yellowstone National Park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 1 van and 3 buses with 95 students. High School B rented and filled 2 vans and 3 buses with 112 students. Each van and each bus carried the same number of students. How many students can a van carry? How many students can a bus carry?
- 22) Yellowstone National Park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 11 vans and 8 buses with 406 students. High School B rented and filled 11 vans and 7 buses with 369 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
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- 24) The senior classes at High School A and High School B planned separate trips to the water park. The senior class at High School A rented and filled 9 vans and 5 buses with 323 students. High School B rented and filled 9 vans and 12 buses with 561 students. Every van had the same number of students in it as did the buses. Find the number of students in each van and in each bus.
- 25) The water park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 6 vans and 10 buses with 604 students. High School B rented and filled 12 vans and 6 buses with 438 students. Each van and each bus carried the same number of students. How many students can a van carry? How many students can a bus carry?
- 26) The state fair is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 11 vans and 6 buses with 445 students. High School B rented and filled 9 vans and 3 buses with 282 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 27) The senior classes at High School A and High School B planned separate trips to the indoor climbing gym. The senior class at High School A rented and filled 5 vans and 12 buses with 656 students. High School B rented and filled 10 vans and 13 buses with 784 students. Every van had the same number of students in it as did the buses. Find the number of students in each van and in each bus.

- 28) The senior classes at High School A and High School B planned separate trips to the indoor climbing gym. The senior class at High School A rented and filled 5 vans and 11 buses with 285 students. High School B rented and filled 1 van and 6 buses with 133 students. Each van and each bus carried the same number of students. How many students can a van carry? How many students can a bus carry?
- 29) The senior classes at High School A and High School B planned separate trips to the indoor climbing gym. The senior class at High School A rented and filled 9 vans and 7 buses with 464 students. High School B rented and filled 7 vans and 5 buses with 336 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
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- 31) Jaidee and Huong are selling pies for a school fundraiser. Customers can buy cherry pies and lemon meringue pies. Jaidee sold 6 cherry pies and 12 lemon meringue pies for a total of \$84. Huong sold 2 cherry pies and 6 lemon meringue pies for a total of \$38. Find the cost each of one cherry pie and one lemon meringue pie.
- 32) Totsakan and Sumalee are selling cookie dough for a school fundraiser. Customers can buy packages of chocolate chip cookie dough and packages of oatmeal cookie dough. Totsakan sold 5 packages of chocolate chip cookie dough and 1 package of oatmeal cookie dough for a total of \$70. Sumalee sold 10 packages of chocolate chip cookie dough and 13 packages of oatmeal cookie dough for a total of \$360. What is the cost each of one package of chocolate chip cookie dough and one package of oatmeal cookie dough?
- 33) Heather and Abhasra are selling cookie dough for a school fundraiser. Customers can buy packages of white chocolate chip cookie dough and packages of gingerbread cookie dough. Heather sold 5 packages of white chocolate chip cookie dough and 6 packages of gingerbread cookie dough for a total of \$136. Abhasra sold 14 packages of white chocolate chip cookie dough and 12 packages of gingerbread cookie dough for a total of \$304. What is the cost each of one package of white chocolate chip cookie dough and one package of gingerbread cookie dough?
- 34) Wilbur and Pranav are selling fruit for a school fundraiser. Customers can buy small boxes of grapefruit and large boxes of grapefruit. Wilbur sold 3 small boxes of grapefruit and 14 large boxes of grapefruit for a total of \$278. Pranav sold 9 small boxes of grapefruit and 5 large boxes of grapefruit for a total of \$131. What is the cost each of one small box of grapefruit and one large box of grapefruit?
- 35) John and Arjun are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. John sold 2 rolls of plain wrapping paper and 5 rolls of holiday wrapping paper for a total of \$94. Arjun sold 12 rolls of plain wrapping paper and 1 roll of holiday wrapping paper for a total of \$158. What is the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper?
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- 45) Jacob and Danielle each improved their yards by planting rose bushes and ivy. They bought their supplies from the same store. Jacob spent \$122 on 14 rose bushes and 6 pots of ivy. Danielle spent \$69 on 7 rose bushes and 5 pots of ivy. What is the cost of one rose bush and the cost of one pot of ivy?
- 46) Natalie and Daniel each improved their yards by planting grass sod and ivy. They bought their supplies from the same store. Natalie spent \$56 on 7 ft<sup>2</sup> of grass sod and 7 pots of ivy. Daniel spent \$44 on 13 ft<sup>2</sup> of grass sod and 1 pot of ivy. Find the cost of one ft<sup>2</sup> of grass sod and the cost of one pot of ivy.
- 47) Amanda and Kayla each improved their yards by planting daylilies and shrubs. They bought their supplies from the same store. Amanda spent \$107 on 7 daylilies and 12 shrubs. Kayla spent \$148 on 14 daylilies and 13 shrubs. Find the cost of one daylily and the cost of one shrub.
- 48) Stephanie and Ashley each improved their yards by planting rose bushes and ornamental grass. They bought their supplies from the same store. Stephanie spent \$137 on 12 rose bushes and 7 bunches of ornamental grass. Ashley spent \$108 on 4 rose bushes and 8 bunches of ornamental grass. What is the cost of one rose bush and the cost of one bunch of ornamental grass?
- 49) Alberto and Jacob each improved their yards by planting grass sod and shrubs. They bought their supplies from the same store. Alberto spent \$56 on 4 ft<sup>2</sup> of grass sod and 4 shrubs. Jacob spent \$50 on 1 ft<sup>2</sup> of grass sod and 13 shrubs. What is the cost of one ft<sup>2</sup> of grass sod and the cost of one shrub?
- 50) Scott and Gabriella each improved their yards by planting grass sod and geraniums. They bought their supplies from the same store. Scott spent \$86 on 10 ft<sup>2</sup> of grass sod and 2 geraniums. Gabriella spent \$31 on 2 ft<sup>2</sup> of grass sod and 5 geraniums. What is the cost of one ft<sup>2</sup> of grass sod and the cost of one geranium?

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- 47) Amanda and Kayla each improved their yards by planting daylilies and shrubs. They bought their supplies from the same store. Amanda spent \$107 on 7 daylilies and 12 shrubs. Kayla spent \$148 on 14 daylilies and 13 shrubs. Find the cost of one daylily and the cost of one shrub. dayli
- 48) Stephanie and Ashley each improved their yards by planting rose bushes and ornamental grass. They bought their supplies from the same store. Stephanie spent \$137 on 12 rose bushes and 7 bunches of ornamental grass. Ashley spent \$108 on 4 rose bushes and 8 bunches of ornamental grass. What is the cost of one rose bush and the cost of one bunch of ornamental grass? rose bu
- 49) Alberto and Jacob each improved their yards by planting grass sod and shrubs. They bought their supplies from the same store. Alberto spent \$56 on 4 ft<sup>2</sup> of grass sod and 4 shrubs. Jacob spent \$50 on 1 ft<sup>2</sup> of grass sod and 13 shrubs. What is the cost of one ft<sup>2</sup> of grass sod and the cost of one shrub? ft<sup>2</sup> of
- 50) Scott and Gabriella each improved their yards by planting grass sod and geraniums. They bought their supplies from the same store. Scott spent \$86 on 10 ft<sup>2</sup> of grass sod and 2 geraniums. Gabriella spent \$31 on 2 ft<sup>2</sup> of grass sod and 5 geraniums. What is the cost of one ft<sup>2</sup> of grass sod and the cost of one geranium? ft<sup>2</sup> of g