

Assignment

- 1) Totsakan's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 5 adult tickets and 12 child tickets for a total of \$178. The school took in \$83 on the second day by selling 4 adult tickets and 3 child tickets. Find the price of an adult ticket and the price of a child ticket.
- 2) The senior classes at High School A and High School B planned separate trips to the county fair. The senior class at High School A rented and filled 11 vans and 5 buses with 247 students. High School B rented and filled 1 van and 10 buses with 242 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 3) The school that Matt goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 12 adult tickets and 3 student tickets for a total of \$129. The school took in \$104 on the second day by selling 2 adult tickets and 6 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 4) 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 8 vans and 4 buses with 256 students. High School B rented and filled 4 vans and 6 buses with 312 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?
- 5) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 12 vans and 6 buses with 402 students. High School B rented and filled 7 vans and 12 buses with 549 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.
- 6) 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 5 vans and 7 buses with 236 students. High School B rented and filled 10 vans and 6 buses with 248 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?
- 7) 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 2 vans and 9 buses with 472 students. High School B rented and filled 8 vans and 12 buses with 688 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 8) 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 6 vans and 6 buses with 462 students. High School B rented and filled 11 vans and 12 buses with 906 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.



- 9) A plane traveled 560 miles to New York City 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.
- 10) A plane traveled 576 miles to Munich and back. The trip there was with the wind. It took 6 hours. The trip back was into the wind. The trip back took 12 hours. Find the speed of the plane in still air and the speed of the wind.
- 11) A boat traveled 168 miles downstream and back. The trip downstream took 7 hours. The trip back took 21 hours. What is the speed of the boat in still water? What is the speed of the current?
- 12) A boat traveled 96 miles downstream and back. The trip downstream took 6 hours. The trip back took 12 hours. What is the speed of the boat in still water? What is the speed of the current?
- 13) A boat traveled 80 miles downstream and back. The trip downstream took 4 hours. The trip back took 40 hours. Find the speed of the boat in still water and the speed of the current.
- 14) A boat traveled 330 miles downstream and back. The trip downstream took 11 hours. The trip back took 33 hours. Find the speed of the boat in still water and the speed of the current.
- 15) The sum of the digits of a certain two-digit number is 5. When you reverse its digits you increase the number by 27. Find the number.
- 16) When you reverse the digits in a certain two-digit number you decrease its value by 63. What is the number if the sum of its digits is 9?
- 17) When you reverse the digits in a certain two-digit number you decrease its value by 9. Find the number if the sum of its digits is 11.
- 18) When you reverse the digits in a certain two-digit number you decrease its value by 45. Find the number if the sum of its digits is 5.
- 19) The sum of the digits of a certain two-digit number is 6. Reversing its digits increases the number by 18. Find the number.
- 20) When you reverse the digits in a certain two-digit number you decrease its value by 72. What is the number if the sum of its digits is 10?
- 21) The sum of the digits of a certain two-digit number is 14. Reversing its digits decreases the number by 36. What is the number?



- 22) Imani and Huong are selling fruit for a school fundraiser. Customers can buy small boxes of grapefruit and large boxes of grapefruit. Imani sold 2 small boxes of grapefruit and 7 large boxes of grapefruit for a total of \$118. Huong sold 10 small boxes of grapefruit and 8 large boxes of grapefruit for a total of \$212. Find the cost each of one small box of grapefruit and one large box of grapefruit.
- 23) The sum of the digits of a certain two-digit number is 8. Reversing its digits decreases the number by 72. What is the number?
- 24) When you reverse the digits in a certain two-digit number you decrease its value by 18. What is the number if the sum of its digits is 16?



Answers to Assignment (ID: 1)

- 1) adult ticket: \$14, child ticket: \$9 2) Van: 12, Bus: 23
3) adult ticket: \$7, student ticket: \$15 4) Van: 9, Bus: 46 5) Van: 15, Bus: 37
6) Van: 8, Bus: 28 7) Van: 11, Bus: 50 8) Van: 18, Bus: 59
9) plane: 60 mph, wind: 20 mph 10) plane: 72 mph, wind: 24 mph 11) boat: 16 mph, current: 8 mph
12) boat: 12 mph, current: 4 mph 13) boat: 11 mph, current: 9 mph 14) boat: 20 mph, current: 10 mph
15) 14 16) 81 17) 65 18) 50
19) 24 20) 91 21) 95
22) small box of grapefruit: \$10, large box of grapefruit: \$14
23) 80 24) 97



Assignment

- 1) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 2 vans and 2 buses with 68 students. High School B rented and filled 5 vans and 6 buses with 190 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.
- 2) The school that Sarawong goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 4 senior citizen tickets and 7 student tickets for a total of \$73. The school took in \$62 on the second day by selling 2 senior citizen tickets and 12 student tickets. What is the price each of one senior citizen ticket and one student ticket?
- 3) A plane traveled 288 miles to Paris and back. The trip there was with the wind. It took 3 hours. The trip back was into the wind. The trip back took 6 hours. What is the speed of the plane in still air? What is the speed of the wind?
- 4) The school that Heather goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 6 senior citizen tickets and 8 student tickets for a total of \$106. The school took in \$67 on the second day by selling 2 senior citizen tickets and 9 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 5) Wilbur and Molly each improved their yards by planting grass sod and ivy. They bought their supplies from the same store. Wilbur spent \$23 on 4 ft² of grass sod and 5 pots of ivy. Molly spent \$36 on 12 ft² of grass sod and 4 pots of ivy. What is the cost of one ft² of grass sod and the cost of one pot of ivy?
- 6) John and Darryl are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and strawberry cheesecakes. John sold 2 pecan cheesecakes and 7 strawberry cheesecakes for a total of \$132. Darryl sold 12 pecan cheesecakes and 2 strawberry cheesecakes for a total of \$152. What is the cost each of one pecan cheesecake and one strawberry cheesecake?
- 7) Rob and Willie are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and packages of crocus bulbs. Rob sold 1 package of tulips bulbs and 11 packages of crocus bulbs for a total of \$116. Willie sold 12 packages of tulip bulbs and 10 packages of crocus bulbs for a total of \$172. Find the cost each of one package of tulips bulbs and one package of crocus bulbs.
- 8) Asanji and Elisa are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and chocolate marble cheesecakes. Asanji sold 7 pecan cheesecakes and 11 chocolate marble cheesecakes for a total of \$130. Elisa sold 8 pecan cheesecakes and 1 chocolate marble cheesecake for a total of \$56. What is the cost each of one pecan cheesecake and one chocolate marble cheesecake?
- 9) Amy and DeShawn are selling cookie dough for a school fundraiser. Customers can buy packages of sugar cookie dough and packages of oatmeal cookie dough. Amy sold 4 packages of sugar cookie dough and 5 packages of oatmeal cookie dough for a total of \$90. DeShawn sold 12 packages of sugar cookie dough and 10 packages of oatmeal cookie dough for a total of \$220. Find the cost each of one package of sugar cookie dough and one package of oatmeal cookie dough.
- 10) Brenda and Carlos are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Brenda sold 8 rolls of plain wrapping paper and 11 rolls of holiday wrapping paper for a total of \$262. Carlos sold 4 rolls of plain wrapping paper and 2 rolls of holiday wrapping paper for a total of \$68. Find the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper.



- 11) Adam and Alberto are selling cookie dough for a school fundraiser. Customers can buy packages of chocolate chip cookie dough and packages of double chocolate cookie dough. Adam sold 6 packages of chocolate chip cookie dough and 1 package of double chocolate cookie dough for a total of \$104. Alberto sold 12 packages of chocolate chip cookie dough and 11 packages of double chocolate cookie dough for a total of \$388. Find the cost each of one package of chocolate chip cookie dough and one package of double chocolate cookie dough.
- 12) Mark and Scott are selling cheesecakes for a school fundraiser. Customers can buy French silk cheesecakes and chocolate marble cheesecakes. Mark sold 4 French silk cheesecakes and 5 chocolate marble cheesecakes for a total of \$91. Scott sold 12 French silk cheesecakes and 6 chocolate marble cheesecakes for a total of \$174. Find the cost each of one French silk cheesecake and one chocolate marble cheesecake.
- 13) Mei and Daniel are selling pies for a school fundraiser. Customers can buy apple pies and lemon meringue pies. Mei sold 5 apple pies and 10 lemon meringue pies for a total of \$180. Daniel sold 10 apple pies and 12 lemon meringue pies for a total of \$240. Find the cost each of one apple pie and one lemon meringue pie.
- 14) Jose and Stephanie each improved their yards by planting rose bushes and ivy. They bought their supplies from the same store. Jose spent \$154 on 5 rose bushes and 11 pots of ivy. Stephanie spent \$47 on 1 rose bush and 4 pots of ivy. Find the cost of one rose bush and the cost of one pot of ivy.
- 15) Julia and Amanda each improved their yards by planting daylilies and ornamental grass. They bought their supplies from the same store. Julia spent \$48 on 8 daylilies and 12 bunches of ornamental grass. Amanda spent \$32 on 4 daylilies and 10 bunches of ornamental grass. Find the cost of one daylily and the cost of one bunch of ornamental grass.
- 16) Natalie and Kali each improved their yards by planting grass sod and geraniums. They bought their supplies from the same store. Natalie spent \$148 on 12 ft² of grass sod and 1 geranium. Kali spent \$80 on 6 ft² of grass sod and 2 geraniums. Find the cost of one ft² of grass sod and the cost of one geranium.
- 17) Stephanie and Lea each improved their yards by planting daylilies and ivy. They bought their supplies from the same store. Stephanie spent \$17 on 1 daylily and 3 pots of ivy. Lea spent \$61 on 8 daylilies and 9 pots of ivy. What is the cost of one daylily and the cost of one pot of ivy?
- 18) Amanda and Eugene each improved their yards by planting rose bushes and ivy. They bought their supplies from the same store. Amanda spent \$40 on 9 rose bushes and 2 pots of ivy. Eugene spent \$40 on 6 rose bushes and 8 pots of ivy. What is the cost of one rose bush and the cost of one pot of ivy?
- 19) Jacob and Gabriella each improved their yards by planting daylilies and ornamental grass. They bought their supplies from the same store. Jacob spent \$12 on 1 daylily and 5 bunches of ornamental grass. Gabriella spent \$36 on 8 daylilies and 10 bunches of ornamental grass. Find the cost of one daylily and the cost of one bunch of ornamental grass.
- 20) The school that Scott goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 8 senior citizen tickets and 7 child tickets for a total of \$135. The school took in \$126 on the second day by selling 4 senior citizen tickets and 10 child tickets. What is the price each of one senior citizen ticket and one child ticket?
- 21) The school that Castel goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 4 adult tickets and 3 child tickets for a total of \$40. The school took in \$104 on the second day by selling 12 adult tickets and 5 child tickets. Find the price of an adult ticket and the price of a child ticket.
- 22) Alberto's school is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 12 adult tickets and 5 student tickets for a total of \$198. The school took in \$126 on the second day by selling 6 adult tickets and 7 student tickets. What is the price each of one adult ticket and



- 23) The school that DeShawn goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 1 adult ticket and 4 child tickets for a total of \$44. The school took in \$130 on the second day by selling 10 adult tickets and 9 child tickets. Find the price of an adult ticket and the price of a child ticket.
- 24) The school that Darryl goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 12 adult tickets and 6 student tickets for a total of \$168. The school took in \$196 on the second day by selling 10 adult tickets and 12 student tickets. Find the price of an adult ticket and the price of a student ticket.



Answers to Assignment (ID: 2)

- 1) Van: 14, Bus: 20
- 2) senior citizen ticket: \$13, student ticket: \$3
- 3) plane: 72 mph, wind: 24 mph
- 4) senior citizen ticket: \$11, student ticket: \$5
- 5) ft² of grass sod: \$2, pot of ivy: \$3
- 6) pecan cheesecake: \$10, strawberry cheesecake: \$16
- 7) package of tulips bulbs: \$6, package of crocus bulbs: \$10
- 8) pecan cheesecake: \$6, chocolate marble cheesecake: \$8
- 9) package of sugar cookie dough: \$10, package of oatmeal cookie dough: \$10
- 10) roll of plain wrapping paper: \$8, roll of holiday wrapping paper: \$18
- 11) package of chocolate chip cookie dough: \$14, package of double chocolate cookie dough: \$20
- 12) French silk cheesecake: \$9, chocolate marble cheesecake: \$11
- 13) apple pie: \$6, lemon meringue pie: \$15
- 14) rose bush: \$11, pot of ivy: \$9
- 15) daylily: \$3, bunch of ornamental grass: \$2
- 16) ft² of grass sod: \$12, geranium: \$4
- 17) daylily: \$2, pot of ivy: \$5
- 18) rose bush: \$4, pot of ivy: \$2
- 19) daylily: \$2, bunch of ornamental grass: \$2
- 20) senior citizen ticket: \$9, child ticket: \$9
- 21) adult ticket: \$7, child ticket: \$4
- 22) adult ticket: \$14, student ticket: \$6
- 23) adult ticket: \$4, child ticket: \$10
- 24) adult ticket: \$10, student ticket: \$8



Assignment

- 1) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 1 van and 6 buses with 167 students. High School B rented and filled 5 vans and 11 buses with 341 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?
- 2) The school that Aliyah goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 4 senior citizen tickets and 4 child tickets for a total of \$80. The school took in \$170 on the second day by selling 8 senior citizen tickets and 10 child tickets. What is the price each of one senior citizen ticket and one child ticket?
- 3) The senior classes at High School A and High School B planned separate trips to the county fair. The senior class at High School A rented and filled 2 vans and 6 buses with 316 students. High School B rented and filled 1 van and 12 buses with 590 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 4) 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 5 vans and 12 buses with 764 students. High School B rented and filled 10 vans and 7 buses with 559 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.
- 5) The senior classes at High School A and High School B planned separate trips to New York City. The senior class at High School A rented and filled 2 vans and 1 bus with 53 students. High School B rented and filled 12 vans and 9 buses with 435 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 6) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 1 van and 4 buses with 96 students. High School B rented and filled 5 vans and 6 buses with 186 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.
- 7) 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 2 vans and 6 buses with 332 students. High School B rented and filled 11 vans and 3 buses with 266 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?
- 8) A boat traveled 242 miles downstream and back. The trip downstream took 11 hours. The trip back took 121 hours. Find the speed of the boat in still water and the speed of the current.
- 9) A boat traveled 252 miles downstream and back. The trip downstream took 12 hours. The trip back took 36 hours. Find the speed of the boat in still water and the speed of the current.



- 10) A boat traveled 105 miles downstream and back. The trip downstream took 5 hours. The trip back took 105 hours. What is the speed of the boat in still water? What is the speed of the current?
- 11) A boat traveled 54 miles downstream and back. The trip downstream took 3 hours. The trip back took 9 hours. Find the speed of the boat in still water and the speed of the current.
- 12) A plane traveled 1056 miles to Ft. Worth and back. The trip there was with the wind. It took 12 hours. The trip back was into the wind. The trip back took 24 hours. Find the speed of the plane in still air and the speed of the wind.
- 13) A plane traveled 630 miles to Munich and back. The trip there was with the wind. It took 7 hours. The trip back was into the wind. The trip back took 21 hours. Find the speed of the plane in still air and the speed of the wind.
- 14) When you reverse the digits in a certain two-digit number you increase its value by 9. Find the number if the sum of its digits is 17.
- 15) When you reverse the digits in a certain two-digit number you decrease its value by 36. Find the number if the sum of its digits is 10.
- 16) The sum of the digits of a certain two-digit number is 4. Reversing its digits decreases the number by 36. What is the number?
- 17) The sum of the digits of a certain two-digit number is 7. Reversing its digits increases the number by 27. Find the number.
- 18) When you reverse the digits in a certain two-digit number you increase its value by 72. What is the number if the sum of its digits is 10?
- 19) A plane traveled 972 miles to Seoul and back. The trip there was with the wind. It took 9 hours. The trip back was into the wind. The trip back took 18 hours. Find the speed of the plane in still air and the speed of the wind.
- 20) Ashley and Shanice each improved their yards by planting daylilies and ivy. They bought their supplies from the same store. Ashley spent \$104 on 9 daylilies and 4 pots of ivy. Shanice spent \$120 on 3 daylilies and 12 pots of ivy. What is the cost of one daylily and the cost of one pot of ivy?
- 21) Chelsea and Trevon each improved their yards by planting daylilies and ornamental grass. They bought their supplies from the same store. Chelsea spent \$162 on 12 daylilies and 3 bunches of ornamental grass. Trevon spent \$143 on 3 daylilies and 11 bunches of ornamental grass. What is the cost of one daylily and the cost of one bunch of ornamental grass?



- 22) When you reverse the digits in a certain two-digit number you increase its value by 36. What is the number if the sum of its digits is 12?
- 23) A boat traveled 84 miles downstream and back. The trip downstream took 4 hours. The trip back took 28 hours. Find the speed of the boat in still water and the speed of the current.
- 24) A plane traveled 528 miles to San Francisco and back. The trip there was with the wind. It took 6 hours. The trip back was into the wind. The trip back took 12 hours. Find the speed of the plane in still air and the speed of the wind.



Answers to Assignment (ID: 3)

- 1) Van: 11, Bus: 26 2) senior citizen ticket: \$15, child ticket: \$5 3) Van: 14, Bus: 48
4) Van: 16, Bus: 57 5) Van: 7, Bus: 39 6) Van: 12, Bus: 21 7) Van: 10, Bus: 52
8) boat: 12 mph, current: 10 mph 9) boat: 14 mph, current: 7 mph
10) boat: 11 mph, current: 10 mph 11) boat: 12 mph, current: 6 mph
12) plane: 66 mph, wind: 22 mph 13) plane: 60 mph, wind: 30 mph 14) 89
15) 73 16) 40 17) 25 18) 19
19) plane: 81 mph, wind: 27 mph 20) daylily: \$8, pot of ivy: \$8
21) daylily: \$11, bunch of ornamental grass: \$10 22) 48
23) boat: 12 mph, current: 9 mph 24) plane: 66 mph, wind: 22 mph



Assignment

- 1) The school that Willie goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 7 adult tickets and 4 student tickets for a total of \$65. The school took in \$103 on the second day by selling 5 adult tickets and 8 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 2) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 12 vans and 7 buses with 322 students. High School B rented and filled 6 vans and 5 buses with 194 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?
- 3) Shanice's school is selling tickets to a choral performance. On the first day of ticket sales the school sold 2 adult tickets and 6 student tickets for a total of \$58. The school took in \$113 on the second day by selling 7 adult tickets and 3 student tickets. What is the price each of one adult ticket and one student ticket?
- 4) Kathryn and Nicole each improved their yards by planting daylilies and geraniums. They bought their supplies from the same store. Kathryn spent \$92 on 9 daylilies and 4 geraniums. Nicole spent \$49 on 3 daylilies and 5 geraniums. Find the cost of one daylily and the cost of one geranium.
- 5) Kali and Chelsea are selling fruit for a school fundraiser. Customers can buy small boxes of tangerines and large boxes of tangerines. Kali sold 8 small boxes of tangerines and 7 large boxes of tangerines for a total of \$185. Chelsea sold 2 small boxes of tangerines and 4 large boxes of tangerines for a total of \$80. Find the cost each of one small box of tangerines and one large box of tangerines.
- 6) Pranav and Amanda are selling cheesecakes for a school fundraiser. Customers can buy New York style cheesecakes and chocolate marble cheesecakes. Pranav sold 4 New York style cheesecakes and 1 chocolate marble cheesecake for a total of \$37. Amanda sold 8 New York style cheesecakes and 6 chocolate marble cheesecakes for a total of \$110. Find the cost each of one New York style cheesecake and one chocolate marble cheesecake.
- 7) Sumalee and Jasmine are selling fruit for a school fundraiser. Customers can buy small boxes of grapefruit and large boxes of grapefruit. Sumalee sold 9 small boxes of grapefruit and 10 large boxes of grapefruit for a total of \$145. Jasmine sold 3 small boxes of grapefruit and 7 large boxes of grapefruit for a total of \$85. What is the cost each of one small box of grapefruit and one large box of grapefruit?
- 8) Totsakan and Emily are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. Totsakan sold 1 roll of plain wrapping paper and 4 rolls of shiny wrapping paper for a total of \$46. Emily sold 3 rolls of plain wrapping paper and 11 rolls of shiny wrapping paper for a total of \$128. What is the cost each of one roll of plain wrapping paper and one roll of shiny wrapping paper?
- 9) Mary and Julia are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and packages of crocus bulbs. Mary sold 7 bags of windflower bulbs and 2 packages of crocus bulbs for a total of \$67. Julia sold 11 bags of windflower bulbs and 10 packages of crocus bulbs for a total of \$167. Find the cost each of one bag of windflower bulbs and one package of crocus bulbs.
- 10) Matt and Eugene are selling cookie dough for a school fundraiser. Customers can buy packages of sugar cookie dough and packages of oatmeal cookie dough. Matt sold 1 package of sugar cookie dough and 4 packages of oatmeal cookie dough for a total of \$78. Eugene sold 7 packages of sugar cookie dough and 8 packages of oatmeal cookie dough for a total of \$206. Find the cost each of one package of cookie dough.



- 11) Lisa and Joe are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Lisa sold 1 roll of plain wrapping paper and 8 rolls of holiday wrapping paper for a total of \$89. Joe sold 9 rolls of plain wrapping paper and 3 rolls of holiday wrapping paper for a total of \$111. What is the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper?
- 12) Paul and Julio are selling cookie dough for a school fundraiser. Customers can buy packages of sugar cookie dough and packages of oatmeal cookie dough. Paul sold 9 packages of sugar cookie dough and 12 packages of oatmeal cookie dough for a total of \$351. Julio sold 1 package of sugar cookie dough and 4 packages of oatmeal cookie dough for a total of \$87. Find the cost each of one package of sugar cookie dough and one package of oatmeal cookie dough.
- 13) Beth and Kim each improved their yards by planting hostas and ornamental grass. They bought their supplies from the same store. Beth spent \$124 on 10 hostas and 8 bunches of ornamental grass. Kim spent \$50 on 3 hostas and 4 bunches of ornamental grass. Find the cost of one hosta and the cost of one bunch of ornamental grass.
- 14) Mofor and Mark each improved their yards by planting daylilies and ornamental grass. They bought their supplies from the same store. Mofor spent \$108 on 12 daylilies and 6 bunches of ornamental grass. Mark spent \$70 on 6 daylilies and 5 bunches of ornamental grass. Find the cost of one daylily and the cost of one bunch of ornamental grass.
- 15) Shawna and James each improved their yards by planting rose bushes and shrubs. They bought their supplies from the same store. Shawna spent \$18 on 2 rose bushes and 1 shrub. James spent \$112 on 8 rose bushes and 8 shrubs. What is the cost of one rose bush and the cost of one shrub?
- 16) Jill and Perry each improved their yards by planting daylilies and geraniums. They bought their supplies from the same store. Jill spent \$66 on 12 daylilies and 6 geraniums. Perry spent \$87 on 9 daylilies and 12 geraniums. What is the cost of one daylily and the cost of one geranium?
- 17) Ted and Brenda each improved their yards by planting daylilies and ivy. They bought their supplies from the same store. Ted spent \$83 on 7 daylilies and 5 pots of ivy. Brenda spent \$130 on 5 daylilies and 10 pots of ivy. What is the cost of one daylily and the cost of one pot of ivy?
- 18) Jenny and Kristin each improved their yards by planting rose bushes and ornamental grass. They bought their supplies from the same store. Jenny spent \$46 on 12 rose bushes and 2 bunches of ornamental grass. Kristin spent \$67 on 6 rose bushes and 5 bunches of ornamental grass. Find the cost of one rose bush and the cost of one bunch of ornamental grass.
- 19) Joe's school is selling tickets to a fall musical. On the first day of ticket sales the school sold 11 adult tickets and 5 student tickets for a total of \$104. The school took in \$124 on the second day by selling 1 adult ticket and 10 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 20) Lea's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 5 adult tickets and 4 child tickets for a total of \$66. The school took in \$136 on the second day by selling 10 adult tickets and 9 child tickets. What is the price each of one adult ticket and one child ticket?
- 21) Emily's school is selling tickets to the annual talent show. On the first day of ticket sales the school sold 10 senior citizen tickets and 1 child ticket for a total of \$165. The school took in \$165 on the second day by selling 2 senior citizen tickets and 9 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.



- 22) Kayla's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 6 adult tickets and 1 child ticket for a total of \$89. The school took in \$147 on the second day by selling 2 adult tickets and 11 child tickets. What is the price each of one adult ticket and one child ticket?
- 23) Gabriella's school is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 2 senior citizen tickets and 5 student tickets for a total of \$79. The school took in \$186 on the second day by selling 8 senior citizen tickets and 10 student tickets. What is the price each of one senior citizen ticket and one student ticket?
- 24) Daniel's school is selling tickets to the annual talent show. On the first day of ticket sales the school sold 11 senior citizen tickets and 1 child ticket for a total of \$63. The school took in \$112 on the second day by selling 8 senior citizen tickets and 9 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.



Answers to Assignment (ID: 4)

- 1) adult ticket: \$3, student ticket: \$11
- 2) Van: 14, Bus: 22
- 3) adult ticket: \$14, student ticket: \$5
- 4) daylily: \$8, geranium: \$5
- 5) small box of tangerines: \$10, large box of tangerines: \$15
- 6) New York style cheesecake: \$7, chocolate marble cheesecake: \$9
- 7) small box of grapefruit: \$5, large box of grapefruit: \$10
- 8) roll of plain wrapping paper: \$6, roll of shiny wrapping paper: \$10
- 9) bag of windflower bulbs: \$7, package of crocus bulbs: \$9
- 10) package of sugar cookie dough: \$10, package of oatmeal cookie dough: \$17
- 11) roll of plain wrapping paper: \$9, roll of holiday wrapping paper: \$10
- 12) package of sugar cookie dough: \$15, package of oatmeal cookie dough: \$18
- 13) hosta: \$6, bunch of ornamental grass: \$8
- 14) daylily: \$5, bunch of ornamental grass: \$8
- 15) rose bush: \$4, shrub: \$10
- 16) daylily: \$3, geranium: \$5
- 17) daylily: \$4, pot of ivy: \$11
- 18) rose bush: \$2, bunch of ornamental grass: \$11
- 19) adult ticket: \$4, student ticket: \$12
- 20) adult ticket: \$10, child ticket: \$4
- 21) senior citizen ticket: \$15, child ticket: \$15
- 22) adult ticket: \$13, child ticket: \$11
- 23) senior citizen ticket: \$7, student ticket: \$13
- 24) senior citizen ticket: \$5, child ticket: \$8



Assignment

- 1) The senior classes at High School A and High School B planned separate trips to New York City. The senior class at High School A rented and filled 6 vans and 12 buses with 810 students. High School B rented and filled 2 vans and 6 buses with 390 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.
- 2) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 9 vans and 6 buses with 423 students. High School B rented and filled 11 vans and 2 buses with 245 students. Every van had the same number of students in it as did the buses. How many students can a van carry? How many students can a bus carry?
- 3) The senior classes at High School A and High School B planned separate trips to the county fair. The senior class at High School A rented and filled 12 vans and 4 buses with 232 students. High School B rented and filled 6 vans and 5 buses with 200 students. Every van had the same number of students in it as did the buses. How many students can a van carry? How many students can a bus carry?
- 4) 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 10 vans and 4 buses with 224 students. High School B rented and filled 5 vans and 6 buses with 276 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.
- 5) A boat traveled 352 miles downstream and back. The trip downstream took 11 hours. The trip back took 22 hours. What is the speed of the boat in still water? What is the speed of the current?
- 6) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 12 vans and 3 buses with 228 students. High School B rented and filled 6 vans and 2 buses with 130 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?
- 7) A boat traveled 96 miles downstream and back. The trip downstream took 3 hours. The trip back took 6 hours. What is the speed of the boat in still water? What is the speed of the current?
- 8) A boat traveled 240 miles downstream and back. The trip downstream took 10 hours. The trip back took 40 hours. Find the speed of the boat in still water and the speed of the current.
- 9) A plane traveled 560 miles to New York City 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.



- 10) A plane traveled 1100 miles to Riyadh and back. The trip there was with the wind. It took 11 hours. The trip back was into the wind. The trip back took 22 hours. What is the speed of the plane in still air? What is the speed of the wind?
- 11) When you reverse the digits in a certain two-digit number you decrease its value by 18. Find the number if the sum of its digits is 16.
- 12) A plane traveled 416 miles to Ankara and back. The trip there was with the wind. It took 4 hours. The trip back was into the wind. The trip back took 8 hours. What is the speed of the plane in still air? What is the speed of the wind?
- 13) When you reverse the digits in a certain two-digit number you decrease its value by 18. Find the number if the sum of its digits is 10.
- 14) The sum of the digits of a certain two-digit number is 12. When you reverse its digits you increase the number by 36. What is the number?
- 15) The sum of the digits of a certain two-digit number is 5. Reversing its digits decreases the number by 9. Find the number.
- 16) When you reverse the digits in a certain two-digit number you decrease its value by 9. What is the number if the sum of its digits is 1?
- 17) The sum of the digits of a certain two-digit number is 11. When you reverse its digits you decrease the number by 27. What is the number?
- 18) When you reverse the digits in a certain two-digit number you decrease its value by 27. What is the number if the sum of its digits is 3?
- 19) When you reverse the digits in a certain two-digit number you decrease its value by 45. Find the number if the sum of its digits is 11.
- 20) When you reverse the digits in a certain two-digit number you increase its value by 63. What is the number if the sum of its digits is 9?
- 21) When you reverse the digits in a certain two-digit number you increase its value by 36. Find the number if the sum of its digits is 6.
- 22) A boat traveled 264 miles downstream and back. The trip downstream took 11 hours. The trip back took 22 hours. What is the speed of the boat in still water? What is the speed of the current?



- 23) 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 2 vans and 1 bus with 42 students. High School B rented and filled 9 vans and 8 buses with 287 students. Every van had the same number of students in it as did the buses. How many students can a van carry? How many students can a bus carry?
- 24) The county 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 12 vans and 12 buses with 444 students. High School B rented and filled 2 vans and 7 buses with 194 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?



Answers to Assignment (ID: 5)

- 1) Van: 15, Bus: 60 2) Van: 13, Bus: 51 3) Van: 10, Bus: 28 4) Van: 6, Bus: 41
5) boat: 24 mph, current: 8 mph 6) Van: 11, Bus: 32 7) boat: 24 mph, current: 8 mph
8) boat: 15 mph, current: 9 mph 9) plane: 60 mph, wind: 20 mph 10) plane: 75 mph, wind: 25 mph
11) 97 12) plane: 78 mph, wind: 26 mph 13) 64
14) 48 15) 32 16) 10 17) 74
18) 30 19) 83 20) 18 21) 15
22) boat: 18 mph, current: 6 mph 23) Van: 7, Bus: 28 24) Van: 13, Bus: 24



Assignment

- 1) Amanda's school is selling tickets to the annual talent show. On the first day of ticket sales the school sold 10 senior citizen tickets and 10 child tickets for a total of \$170. The school took in \$118 on the second day by selling 5 senior citizen tickets and 8 child tickets. What is the price each of one senior citizen ticket and one child ticket?
- 2) Scott and Mei each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Scott spent \$88 on 2 ft² of grass sod and 7 bunches of ornamental grass. Mei spent \$74 on 6 ft² of grass sod and 2 bunches of ornamental grass. Find the cost of one ft² of grass sod and the cost of one bunch of ornamental grass.
- 3) Nicole and Julio each improved their yards by planting daylilies and ivy. They bought their supplies from the same store. Nicole spent \$87 on 5 daylilies and 9 pots of ivy. Julio spent \$118 on 10 daylilies and 11 pots of ivy. Find the cost of one daylily and the cost of one pot of ivy.
- 4) Alberto and Mark are selling pies for a school fundraiser. Customers can buy blueberry pies and blackberry pies. Alberto sold 2 blueberry pies and 1 blackberry pie for a total of \$27. Mark sold 1 blueberry pie and 2 blackberry pies for a total of \$42. Find the cost each of one blueberry pie and one blackberry pie.
- 5) Castel and Jack each improved their yards by planting rose bushes and geraniums. They bought their supplies from the same store. Castel spent \$186 on 9 rose bushes and 12 geraniums. Jack spent \$64 on 4 rose bushes and 3 geraniums. Find the cost of one rose bush and the cost of one geranium.
- 6) DeShawn and Adam are selling cookie dough for a school fundraiser. Customers can buy packages of white chocolate chip cookie dough and packages of gingerbread cookie dough. DeShawn sold 3 packages of white chocolate chip cookie dough and 2 packages of gingerbread cookie dough for a total of \$86. Adam sold 9 packages of white chocolate chip cookie dough and 8 packages of gingerbread cookie dough for a total of \$296. Find the cost each of one package of white chocolate chip cookie dough and one package of gingerbread cookie dough.
- 7) Darryl and Brenda are selling cheesecakes for a school fundraiser. Customers can buy French silk cheesecakes and apple cheesecakes. Darryl sold 1 French silk cheesecake and 2 apple cheesecakes for a total of \$33. Brenda sold 7 French silk cheesecakes and 8 apple cheesecakes for a total of \$147. Find the cost each of one French silk cheesecake and one apple cheesecake.
- 8) Aliyah and Mofor are selling fruit for a school fundraiser. Customers can buy small boxes of tangerines and large boxes of tangerines. Aliyah sold 6 small boxes of tangerines and 5 large boxes of tangerines for a total of \$96. Mofor sold 12 small boxes of tangerines and 8 large boxes of tangerines for a total of \$168. Find the cost each of one small box of tangerines and one large box of tangerines.
- 9) Ming and Asanji are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. Ming sold 4 rolls of plain wrapping paper and 12 rolls of shiny wrapping paper for a total of \$148. Asanji sold 8 rolls of plain wrapping paper and 5 rolls of shiny wrapping paper for a total of \$106. What is the cost each of one roll of plain wrapping paper and one roll of shiny wrapping paper?
- 10) Shreya and Shayna are selling cheesecakes for a school fundraiser. Customers can buy French silk cheesecakes and chocolate marble cheesecakes. Shreya sold 6 French silk cheesecakes and 9 chocolate marble cheesecakes for a total of \$261. Shayna sold 1 French silk cheesecake and 2 chocolate marble cheesecakes for a total of \$53. Find the cost each of one French silk cheesecake and one chocolate



- 11) Abhasra and Paul are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and packages of crocus bulbs. Abhasra sold 12 packages of tulip bulbs and 11 packages of crocus bulbs for a total of \$425. Paul sold 3 packages of tulip bulbs and 7 packages of crocus bulbs for a total of \$187. Find the cost each of one package of tulips bulbs and one package of crocus bulbs.
- 12) Norachai and Rob each improved their yards by planting daylilies and geraniums. They bought their supplies from the same store. Norachai spent \$90 on 12 daylilies and 6 geraniums. Rob spent \$126 on 6 daylilies and 12 geraniums. Find the cost of one daylily and the cost of one geranium.
- 13) Huong and Bill each improved their yards by planting hostas and shrubs. They bought their supplies from the same store. Huong spent \$87 on 11 hostas and 8 shrubs. Bill spent \$18 on 2 hostas and 2 shrubs. Find the cost of one hosta and the cost of one shrub.
- 14) Jimmy and Mary each improved their yards by planting hostas and shrubs. They bought their supplies from the same store. Jimmy spent \$27 on 3 hostas and 3 shrubs. Mary spent \$57 on 9 hostas and 1 shrub. What is the cost of one hosta and the cost of one shrub?
- 15) Bill and Jimmy each improved their yards by planting rose bushes and ivy. They bought their supplies from the same store. Bill spent \$66 on 6 rose bushes and 6 pots of ivy. Jimmy spent \$104 on 8 rose bushes and 12 pots of ivy. What is the cost of one rose bush and the cost of one pot of ivy?
- 16) Jennifer and Matt each improved their yards by planting rose bushes and geraniums. They bought their supplies from the same store. Jennifer spent \$118 on 11 rose bushes and 6 geraniums. Matt spent \$68 on 1 rose bush and 12 geraniums. Find the cost of one rose bush and the cost of one geranium.
- 17) The school that Krystal goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 7 senior citizen tickets and 10 child tickets for a total of \$225. The school took in \$204 on the second day by selling 12 senior citizen tickets and 2 child tickets. What is the price each of one senior citizen ticket and one child ticket?
- 18) Ndiba's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 1 senior citizen ticket and 6 child tickets for a total of \$67. The school took in \$155 on the second day by selling 5 senior citizen tickets and 12 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 19) Kristin's school is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 7 senior citizen tickets and 10 student tickets for a total of \$171. The school took in \$68 on the second day by selling 4 senior citizen tickets and 2 student tickets. What is the price each of one senior citizen ticket and one student ticket?
- 20) The school that Perry goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 2 adult tickets and 4 student tickets for a total of \$30. The school took in \$80 on the second day by selling 10 adult tickets and 6 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 21) James' school is selling tickets to a spring musical. On the first day of ticket sales the school sold 7 senior citizen tickets and 6 child tickets for a total of \$95. The school took in \$157 on the second day by selling 11 senior citizen tickets and 12 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 22) Kim's school is selling tickets to a choral performance. On the first day of ticket sales the school sold 7 senior citizen tickets and 6 child tickets for a total of \$140. The school took in \$76 on the second day by selling 6 senior citizen tickets and 2 child tickets. What is the price each of one senior citizen ticket and one child ticket?



- 23) New York City 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 12 vans and 11 buses with 671 students. High School B rented and filled 6 vans and 10 buses with 556 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.
- 24) 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 1 van and 2 buses with 87 students. High School B rented and filled 7 vans and 1 bus with 102 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.



Answers to Assignment (ID: 6)

- 1) senior citizen ticket: \$6, child ticket: \$11
- 2) ft² of grass sod: \$9, bunch of ornamental grass: \$10
- 3) daylily: \$3, pot of ivy: \$8
- 4) blueberry pie: \$4, blackberry pie: \$19
- 5) rose bush: \$10, geranium: \$8
- 6) package of white chocolate chip cookie dough: \$16, package of gingerbread cookie dough: \$19
- 7) French silk cheesecake: \$5, apple cheesecake: \$14
- 8) small box of tangerines: \$6, large box of tangerines: \$12
- 9) roll of plain wrapping paper: \$7, roll of shiny wrapping paper: \$10
- 10) French silk cheesecake: \$15, chocolate marble cheesecake: \$19
- 11) package of tulips bulbs: \$18, package of crocus bulbs: \$19
- 12) daylily: \$3, geranium: \$9
- 13) hosta: \$5, shrub: \$4
- 14) hosta: \$6, shrub: \$3
- 15) rose bush: \$7, pot of ivy: \$4
- 16) rose bush: \$8, geranium: \$5
- 17) senior citizen ticket: \$15, child ticket: \$12
- 18) senior citizen ticket: \$7, child ticket: \$10
- 19) senior citizen ticket: \$13, student ticket: \$8
- 20) adult ticket: \$5, student ticket: \$5
- 21) senior citizen ticket: \$11, child ticket: \$3
- 22) senior citizen ticket: \$8, child ticket: \$14
- 23) Van: 11, Bus: 49
- 24) Van: 9, Bus: 39



Assignment

- 1) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 8 vans and 1 bus with 109 students. High School B rented and filled 12 vans and 11 buses with 667 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 2) 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 9 vans and 10 buses with 336 students. High School B rented and filled 3 vans and 12 buses with 294 students. Every van had the same number of students in it as did the buses. How many students can a van carry? How many students can a bus carry?
- 3) The senior classes at High School A and High School B planned separate trips to New York City. The senior class at High School A rented and filled 11 vans and 5 buses with 418 students. High School B rented and filled 6 vans and 10 buses with 548 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?
- 4) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 5 vans and 1 bus with 84 students. High School B rented and filled 8 vans and 9 buses with 386 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?
- 5) A boat traveled 216 miles downstream and back. The trip downstream took 6 hours. The trip back took 12 hours. What is the speed of the boat in still water? What is the speed of the current?
- 6) Ryan and Jaidee each improved their yards by planting rose bushes and ornamental grass. They bought their supplies from the same store. Ryan spent \$156 on 9 rose bushes and 12 bunches of ornamental grass. Jaidee spent \$64 on 4 rose bushes and 4 bunches of ornamental grass. Find the cost of one rose bush and the cost of one bunch of ornamental grass.
- 7) A plane traveled 864 miles to Abuja and back. The trip there was with the wind. It took 8 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.
- 8) A plane traveled 1296 miles to Chicago and back. The trip there was with the wind. It took 12 hours. The trip back was into the wind. The trip back took 24 hours. Find the speed of the plane in still air and the speed of the wind.
- 9) A plane traveled 1320 miles to Ankara and back. The trip there was with the wind. It took 11 hours. The trip back was into the wind. The trip back took 22 hours. Find the speed of the plane in still air and the speed of the wind.



- 10) A boat traveled 256 miles downstream and back. The trip downstream took 8 hours. The trip back took 16 hours. What is the speed of the boat in still water? What is the speed of the current?
- 11) The sum of the digits of a certain two-digit number is 9. Reversing its digits decreases the number by 45. Find the number.
- 12) The sum of the digits of a certain two-digit number is 12. When you reverse its digits you increase the number by 18. What is the number?
- 13) The sum of the digits of a certain two-digit number is 7. When you reverse its digits you increase the number by 9. What is the number?
- 14) When you reverse the digits in a certain two-digit number you increase its value by 63. What is the number if the sum of its digits is 9?
- 15) The sum of the digits of a certain two-digit number is 11. When you reverse its digits you decrease the number by 45. What is the number?
- 16) The sum of the digits of a certain two-digit number is 15. Reversing its digits increases the number by 27. Find the number.
- 17) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 11 vans and 10 buses with 485 students. High School B rented and filled 1 van and 12 buses with 399 students. Every van had the same number of students in it as did the buses. How many students can a van carry? How many students can a bus carry?
- 18) The sum of the digits of a certain two-digit number is 13. When you reverse its digits you decrease the number by 9. What is the number?
- 19) Lisa and Ted are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Lisa sold 4 small boxes of oranges and 12 large boxes of oranges for a total of \$172. Ted sold 2 small boxes of oranges and 8 large boxes of oranges for a total of \$112. Find the cost each of one small box of oranges and one large box of oranges.
- 20) A boat traveled 216 miles downstream and back. The trip downstream took 9 hours. The trip back took 27 hours. What is the speed of the boat in still water? What is the speed of the current?
- 21) A boat traveled 252 miles downstream and back. The trip downstream took 12 hours. The trip back took 252 hours. Find the speed of the boat in still water and the speed of the current.
- 22) 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 10 vans and 4 buses with 144 students. High School B rented and filled 8 vans and 12 buses with 300 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?



- 23) Jill's school is selling tickets to a play. On the first day of ticket sales the school sold 12 senior citizen tickets and 1 child ticket for a total of \$148. The school took in \$152 on the second day by selling 11 senior citizen tickets and 5 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 24) The school that Ted goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 2 senior citizen tickets and 7 child tickets for a total of \$97. The school took in \$73 on the second day by selling 4 senior citizen tickets and 3 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.



Answers to Assignment (ID: 7)

- 1) Van: 7, Bus: 53 2) Van: 14, Bus: 21 3) Van: 18, Bus: 44 4) Van: 10, Bus: 34
5) boat: 27 mph, current: 9 mph 6) rose bush: \$12, bunch of ornamental grass: \$4
7) plane: 81 mph, wind: 27 mph 8) plane: 81 mph, wind: 27 mph 9) plane: 90 mph, wind: 30 mph
10) boat: 24 mph, current: 8 mph 11) 72 12) 57
13) 34 14) 18 15) 83 16) 69
17) Van: 15, Bus: 32 18) 76 19) small box of oranges: \$4, large box of oranges: \$13
20) boat: 16 mph, current: 8 mph 21) boat: 11 mph, current: 10 mph 22) Van: 6, Bus: 21
23) senior citizen ticket: \$12, child ticket: \$4 24) senior citizen ticket: \$10, child ticket: \$11



Assignment

- 1) Jenny and Shayna each improved their yards by planting rose bushes and ornamental grass. They bought their supplies from the same store. Jenny spent \$124 on 7 rose bushes and 10 bunches of ornamental grass. Shayna spent \$63 on 4 rose bushes and 5 bunches of ornamental grass. What is the cost of one rose bush and the cost of one bunch of ornamental grass?
- 2) Joe and Jennifer are selling cookie dough for a school fundraiser. Customers can buy packages of sugar cookie dough and packages of gingerbread cookie dough. Joe sold 4 packages of sugar cookie dough and 7 packages of gingerbread cookie dough for a total of \$162. Jennifer sold 12 packages of sugar cookie dough and 1 package of gingerbread cookie dough for a total of \$126. What is the cost each of one package of sugar cookie dough and one package of gingerbread cookie dough?
- 3) Lea and Lisa are selling cookie dough for a school fundraiser. Customers can buy packages of sugar cookie dough and packages of gingerbread cookie dough. Lea sold 4 packages of sugar cookie dough and 6 packages of gingerbread cookie dough for a total of \$66. Lisa sold 1 package of sugar cookie dough and 12 packages of gingerbread cookie dough for a total of \$90. What is the cost each of one package of sugar cookie dough and one package of gingerbread cookie dough?
- 4) Emily and Bill are selling cookie dough for a school fundraiser. Customers can buy packages of chocolate chip cookie dough and packages of double chocolate cookie dough. Emily sold 10 packages of chocolate chip cookie dough and 11 packages of double chocolate cookie dough for a total of \$237. Bill sold 5 packages of chocolate chip cookie dough and 1 package of double chocolate cookie dough for a total of \$42. Find the cost each of one package of chocolate chip cookie dough and one package of double chocolate cookie dough.
- 5) Gabriella and Jimmy are selling pies for a school fundraiser. Customers can buy blueberry pies and lemon meringue pies. Gabriella sold 1 blueberry pie and 12 lemon meringue pies for a total of \$247. Jimmy sold 12 blueberry pies and 3 lemon meringue pies for a total of \$285. Find the cost each of one blueberry pie and one lemon meringue pie.
- 6) Kayla and Heather are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. Kayla sold 9 rolls of plain wrapping paper and 1 roll of shiny wrapping paper for a total of \$47. Heather sold 5 rolls of plain wrapping paper and 9 rolls of shiny wrapping paper for a total of \$119. What is the cost each of one roll of plain wrapping paper and one roll of shiny wrapping paper?
- 7) Dan and Norachai are selling cheesecakes for a school fundraiser. Customers can buy New York style cheesecakes and strawberry cheesecakes. Dan sold 4 New York style cheesecakes and 8 strawberry cheesecakes for a total of \$140. Norachai sold 12 New York style cheesecakes and 6 strawberry cheesecakes for a total of \$186. What is the cost each of one New York style cheesecake and one strawberry cheesecake?
- 8) Daniel and Huong are selling cookie dough for a school fundraiser. Customers can buy packages of white chocolate chip cookie dough and packages of double chocolate cookie dough. Daniel sold 2 packages of white chocolate chip cookie dough and 12 packages of double chocolate cookie dough for a total of \$254. Huong sold 12 packages of white chocolate chip cookie dough and 6 packages of double chocolate cookie dough for a total of \$270. Find the cost each of one package of white chocolate chip cookie dough and one package of double chocolate cookie dough.
- 9) Elisa and Abhasra each improved their yards by planting daylilies and geraniums. They bought their supplies from the same store. Elisa spent \$48 on 4 daylilies and 12 geraniums. Abhasra spent \$51 on 12 daylilies and 5 geraniums. What is the cost of one daylily and the cost of one geranium?



- 10) Eduardo and Jaidee are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Eduardo sold 4 rolls of plain wrapping paper and 9 rolls of holiday wrapping paper for a total of \$240. Jaidee sold 2 rolls of plain wrapping paper and 4 rolls of holiday wrapping paper for a total of \$110. What is the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper?
- 11) Trevon and Kali each improved their yards by planting hostas and geraniums. They bought their supplies from the same store. Trevon spent \$121 on 10 hostas and 9 geraniums. Kali spent \$75 on 12 hostas and 3 geraniums. Find the cost of one hosta and the cost of one geranium.
- 12) Imani and Stefan each improved their yards by planting rose bushes and geraniums. They bought their supplies from the same store. Imani spent \$32 on 6 rose bushes and 4 geraniums. Stefan spent \$64 on 2 rose bushes and 12 geraniums. Find the cost of one rose bush and the cost of one geranium.
- 13) Molly and Ming each improved their yards by planting rose bushes and ivy. They bought their supplies from the same store. Molly spent \$36 on 6 rose bushes and 4 pots of ivy. Ming spent \$30 on 12 rose bushes and 1 pot of ivy. Find the cost of one rose bush and the cost of one pot of ivy.
- 14) Stefan and Shanice each improved their yards by planting hostas and geraniums. They bought their supplies from the same store. Stefan spent \$57 on 2 hostas and 9 geraniums. Shanice spent \$51 on 6 hostas and 3 geraniums. Find the cost of one hosta and the cost of one geranium.
- 15) Anjali and Imani each improved their yards by planting hostas and ornamental grass. They bought their supplies from the same store. Anjali spent \$13 on 2 hostas and 1 bunch of ornamental grass. Imani spent \$66 on 4 hostas and 10 bunches of ornamental grass. What is the cost of one hosta and the cost of one bunch of ornamental grass?
- 16) Jaidee's school is selling tickets to a play. On the first day of ticket sales the school sold 9 adult tickets and 12 child tickets for a total of \$270. The school took in \$95 on the second day by selling 5 adult tickets and 3 child tickets. Find the price of an adult ticket and the price of a child ticket.
- 17) The school that Mike goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 8 senior citizen tickets and 7 student tickets for a total of \$141. The school took in \$54 on the second day by selling 4 senior citizen tickets and 2 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 18) The school that Sarawong goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 11 adult tickets and 10 child tickets for a total of \$295. The school took in \$170 on the second day by selling 7 adult tickets and 5 child tickets. What is the price each of one adult ticket and one child ticket?
- 19) Wilbur's school is selling tickets to the annual talent show. On the first day of ticket sales the school sold 5 senior citizen tickets and 11 child tickets for a total of \$153. The school took in \$138 on the second day by selling 10 senior citizen tickets and 1 child ticket. What is the price each of one senior citizen ticket and one child ticket?
- 20) Rob's school is selling tickets to a fall musical. On the first day of ticket sales the school sold 10 adult tickets and 7 student tickets for a total of \$138. The school took in \$99 on the second day by selling 5 adult tickets and 11 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 21) John's school is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 7 adult tickets and 4 student tickets for a total of \$66. The school took in \$12 on the second day by selling 1 adult ticket and 1 student ticket. Find the price of an adult ticket and the price of a student ticket.
- 22) The senior classes at High School A and High School B planned separate trips to New York City. The senior class at High School A rented and filled 4 vans and 4 buses with 244 students. High School B rented and filled 7 vans and 8 buses with 478 students. Each van and each bus carried the same number of students. How many students can a bus carry?



- 23) 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 4 vans and 12 buses with 536 students. High School B rented and filled 8 vans and 8 buses with 400 students. Every van had the same number of students in it as did the buses. How many students can a van carry? How many students can a bus carry?
- 24) New York City 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 6 buses with 205 students. High School B rented and filled 5 vans and 12 buses with 449 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.



Answers to Assignment (ID: 8)

- 1) rose bush: \$2, bunch of ornamental grass: \$11
- 2) package of sugar cookie dough: \$9, package of gingerbread cookie dough: \$18
- 3) package of sugar cookie dough: \$6, package of gingerbread cookie dough: \$7
- 4) package of chocolate chip cookie dough: \$5, package of double chocolate cookie dough: \$17
- 5) blueberry pie: \$19, lemon meringue pie: \$19
- 6) roll of plain wrapping paper: \$4, roll of shiny wrapping paper: \$11
- 7) New York style cheesecake: \$9, strawberry cheesecake: \$13
- 8) package of white chocolate chip cookie dough: \$13, package of double chocolate cookie dough: \$19
- 9) daylily: \$3, geranium: \$3
- 10) roll of plain wrapping paper: \$15, roll of holiday wrapping paper: \$20
- 11) hosta: \$4, geranium: \$9 12) rose bush: \$2, geranium: \$5 13) rose bush: \$2, pot of ivy: \$6
- 14) hosta: \$6, geranium: \$5 15) hosta: \$4, bunch of ornamental grass: \$5
- 16) adult ticket: \$10, child ticket: \$15 17) senior citizen ticket: \$8, student ticket: \$11
- 18) adult ticket: \$15, child ticket: \$13 19) senior citizen ticket: \$13, child ticket: \$8
- 20) adult ticket: \$11, student ticket: \$4 21) adult ticket: \$6, student ticket: \$6
- 22) Van: 10, Bus: 51 23) Van: 8, Bus: 42 24) Van: 13, Bus: 32



Assignment

- 1) The senior classes at High School A and High School B planned separate trips to the local amusement park. The senior class at High School A rented and filled 10 vans and 5 buses with 175 students. High School B rented and filled 5 vans and 3 buses with 99 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?
- 2) A plane traveled 464 miles to San Salvador and back. The trip there was with the wind. It took 4 hours. The trip back was into the wind. The trip back took 8 hours. What is the speed of the plane in still air? What is the speed of the wind?
- 3) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 12 vans and 5 buses with 338 students. High School B rented and filled 6 vans and 4 buses with 238 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 4) New York City 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 2 vans and 3 buses with 189 students. High School B rented and filled 9 vans and 12 buses with 768 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.
- 5) A plane traveled 352 miles to Casablanca and back. The trip there was with the wind. It took 4 hours. The trip back was into the wind. The trip back took 8 hours. Find the speed of the plane in still air and the speed of the wind.
- 6) A plane traveled 1152 miles to Athens and back. The trip there was with the wind. It took 12 hours. The trip back was into the wind. The trip back took 24 hours. Find the speed of the plane in still air and the speed of the wind.
- 7) A plane traveled 1008 miles to Seattle and back. The trip there was with the wind. It took 9 hours. The trip back was into the wind. The trip back took 18 hours. Find the speed of the plane in still air and the speed of the wind.
- 8) A boat traveled 108 miles downstream and back. The trip downstream took 4 hours. The trip back took 12 hours. What is the speed of the boat in still water? What is the speed of the current?
- 9) A boat traveled 210 miles downstream and back. The trip downstream took 10 hours. The trip back took 30 hours. Find the speed of the boat in still water and the speed of the current.
- 10) The sum of the digits of a certain two-digit number is 12. When you reverse its digits you increase the number by 18. Find the number.



- 11) The sum of the digits of a certain two-digit number is 5. When you reverse its digits you decrease the number by 9. What is the number?
- 12) The sum of the digits of a certain two-digit number is 9. When you reverse its digits you increase the number by 63. Find the number.
- 13) The sum of the digits of a certain two-digit number is 11. Reversing its digits decreases the number by 45. What is the number?
- 14) When you reverse the digits in a certain two-digit number you increase its value by 9. Find the number if the sum of its digits is 15.
- 15) A plane traveled 540 miles to Perth and back. The trip there was with the wind. It took 6 hours. The trip back was into the wind. The trip back took 18 hours. Find the speed of the plane in still air and the speed of the wind.
- 16) Ming and Paul each improved their yards by planting hostas and geraniums. They bought their supplies from the same store. Ming spent \$141 on 9 hostas and 10 geraniums. Paul spent \$129 on 11 hostas and 5 geraniums. What is the cost of one hosta and the cost of one geranium?
- 17) Shreya and Jennifer each improved their yards by planting rose bushes and ivy. They bought their supplies from the same store. Shreya spent \$77 on 1 rose bush and 6 pots of ivy. Jennifer spent \$187 on 11 rose bushes and 11 pots of ivy. Find the cost of one rose bush and the cost of one pot of ivy.
- 18) The sum of the digits of a certain two-digit number is 7. When you reverse its digits you increase the number by 9. What is the number?
- 19) A plane traveled 216 miles to Seoul and back. The trip there was with the wind. It took 2 hours. The trip back was into the wind. The trip back took 4 hours. What is the speed of the plane in still air? What is the speed of the wind?
- 20) The senior classes at High School A and High School B planned separate trips to Yellowstone National Park. The senior class at High School A rented and filled 10 vans and 12 buses with 504 students. High School B rented and filled 12 vans and 2 buses with 270 students. Every van had the same number of students in it as did the buses. How many students can a van carry? How many students can a bus carry?
- 21) 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 8 buses with 238 students. High School B rented and filled 1 van and 1 bus with 29 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) Bill's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 1 adult ticket and 9 child tickets for a total of \$51. The school took in \$100 on the second day by selling 4 adult tickets and 10 child tickets. What is the price each of one adult ticket and one child ticket?



- 23) Jennifer and Norachai each improved their yards by planting rose bushes and geraniums. They bought their supplies from the same store. Jennifer spent \$204 on 12 rose bushes and 12 geraniums. Norachai spent \$134 on 6 rose bushes and 10 geraniums. Find the cost of one rose bush and the cost of one geranium.
- 24) Krystal and Pranav each improved their yards by planting daylilies and ornamental grass. They bought their supplies from the same store. Krystal spent \$154 on 8 daylilies and 9 bunches of ornamental grass. Pranav spent \$116 on 2 daylilies and 10 bunches of ornamental grass. Find the cost of one daylily and the cost of one bunch of ornamental grass.



Answers to Assignment (ID: 9)

- 1) Van: 6, Bus: 23 2) plane: 87 mph, wind: 29 mph 3) Van: 9, Bus: 46
4) Van: 12, Bus: 55 5) plane: 66 mph, wind: 22 mph 6) plane: 72 mph, wind: 24 mph
7) plane: 84 mph, wind: 28 mph 8) boat: 18 mph, current: 9 mph 9) boat: 14 mph, current: 7 mph
10) 57 11) 32 12) 18 13) 83
14) 78 15) plane: 60 mph, wind: 30 mph 16) hosta: \$9, geranium: \$6
17) rose bush: \$5, pot of ivy: \$12 18) 34 19) plane: 81 mph, wind: 27 mph
20) Van: 18, Bus: 27 21) Van: 6, Bus: 23 22) adult ticket: \$15, child ticket: \$4
23) rose bush: \$9, geranium: \$8 24) daylily: \$8, bunch of ornamental grass: \$10



Assignment

- 1) Ndiba and Shreya are selling pies for a school fundraiser. Customers can buy apple pies and pumpkin pies. Ndiba sold 11 apple pies and 1 pumpkin pie for a total of \$152. Shreya sold 2 apple pies and 3 pumpkin pies for a total of \$84. Find the cost each of one apple pie and one pumpkin pie.
- 2) Perry and Kathryn are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Perry sold 4 small boxes of oranges and 4 large boxes of oranges for a total of \$52. Kathryn sold 8 small boxes of oranges and 12 large boxes of oranges for a total of \$132. Find the cost each of one small box of oranges and one large box of oranges.
- 3) Kristin and Kali are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and apple cheesecakes. Kristin sold 2 pecan cheesecakes and 11 apple cheesecakes for a total of \$192. Kali sold 6 pecan cheesecakes and 5 apple cheesecakes for a total of \$128. What is the cost each of one pecan cheesecake and one apple cheesecake?
- 4) James and Molly are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. James sold 6 rolls of plain wrapping paper and 12 rolls of holiday wrapping paper for a total of \$222. Molly sold 2 rolls of plain wrapping paper and 2 rolls of holiday wrapping paper for a total of \$44. What is the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper?
- 5) Kim and Shanice are selling cookie dough for a school fundraiser. Customers can buy packages of chocolate chip cookie dough and packages of double chocolate cookie dough. Kim sold 2 packages of chocolate chip cookie dough and 5 packages of double chocolate cookie dough for a total of \$103. Shanice sold 10 packages of chocolate chip cookie dough and 6 packages of double chocolate cookie dough for a total of \$192. Find the cost each of one package of chocolate chip cookie dough and one package of double chocolate cookie dough.
- 6) Julio and Trevon are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Julio sold 6 small boxes of oranges and 1 large box of oranges for a total of \$74. Trevon sold 12 small boxes of oranges and 4 large boxes of oranges for a total of \$176. Find the cost each of one small box of oranges and one large box of oranges.
- 7) Maria and DeShawn are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. Maria sold 4 rolls of plain wrapping paper and 5 rolls of shiny wrapping paper for a total of \$80. DeShawn sold 8 rolls of plain wrapping paper and 11 rolls of shiny wrapping paper for a total of \$172. What is the cost each of one roll of plain wrapping paper and one roll of shiny wrapping paper?
- 8) Eugene and Micaela are selling cookie dough for a school fundraiser. Customers can buy packages of chocolate chip cookie dough and packages of double chocolate cookie dough. Eugene sold 12 packages of chocolate chip cookie dough and 12 packages of double chocolate cookie dough for a total of \$240. Micaela sold 11 packages of chocolate chip cookie dough and 6 packages of double chocolate cookie dough for a total of \$155. Find the cost each of one package of chocolate chip cookie dough and one package of double chocolate cookie dough.
- 9) Jasmine and Carlos each improved their yards by planting rose bushes and ivy. They bought their supplies from the same store. Jasmine spent \$117 on 12 rose bushes and 9 pots of ivy. Carlos spent \$62 on 2 rose bushes and 10 pots of ivy. Find the cost of one rose bush and the cost of one pot of ivy.
- 10) Ashley and Alberto each improved their yards by planting grass sod and geraniums. They bought their supplies from the same store. Ashley spent \$156 on 9 ft² of grass sod and 6 geraniums. Alberto spent \$168 on 12 ft² of grass sod and 3 geraniums. Find the cost of one ft² of grass sod and the cost of one



- 11) Chelsea and Dan each improved their yards by planting daylilies and ornamental grass. They bought their supplies from the same store. Chelsea spent \$178 on 7 daylilies and 12 bunches of ornamental grass. Dan spent \$164 on 11 daylilies and 6 bunches of ornamental grass. What is the cost of one daylily and the cost of one bunch of ornamental grass?
- 12) Danielle and Daniel each improved their yards by planting hostas and geraniums. They bought their supplies from the same store. Danielle spent \$98 on 4 hostas and 6 geraniums. Daniel spent \$129 on 12 hostas and 3 geraniums. Find the cost of one hosta and the cost of one geranium.
- 13) Ryan and Nicole each improved their yards by planting rose bushes and geraniums. They bought their supplies from the same store. Ryan spent \$100 on 5 rose bushes and 5 geraniums. Nicole spent \$146 on 10 rose bushes and 4 geraniums. What is the cost of one rose bush and the cost of one geranium?
- 14) Carlos and Chelsea each improved their yards by planting daylilies and ivy. They bought their supplies from the same store. Carlos spent \$105 on 1 daylily and 8 pots of ivy. Chelsea spent \$207 on 7 daylilies and 12 pots of ivy. What is the cost of one daylily and the cost of one pot of ivy?
- 15) Micaela's school is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 6 senior citizen tickets and 4 student tickets for a total of \$98. The school took in \$211 on the second day by selling 12 senior citizen tickets and 11 student tickets. What is the price each of one senior citizen ticket and one student ticket?
- 16) Willie's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 1 senior citizen ticket and 5 student tickets for a total of \$21. The school took in \$84 on the second day by selling 12 senior citizen tickets and 4 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 17) Shanice's school is selling tickets to a play. On the first day of ticket sales the school sold 10 adult tickets and 11 child tickets for a total of \$264. The school took in \$125 on the second day by selling 5 adult tickets and 5 child tickets. Find the price of an adult ticket and the price of a child ticket.
- 18) Kathryn's school is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 1 adult ticket and 4 student tickets for a total of \$48. The school took in \$152 on the second day by selling 5 adult tickets and 12 student tickets. What is the price each of one adult ticket and one student ticket?
- 19) Kali's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 2 senior citizen tickets and 8 student tickets for a total of \$90. The school took in \$126 on the second day by selling 10 senior citizen tickets and 4 student tickets. What is the price each of one senior citizen ticket and one student ticket?
- 20) The school that Pranav goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 8 adult tickets and 7 child tickets for a total of \$97. The school took in \$108 on the second day by selling 4 adult tickets and 12 child tickets. Find the price of an adult ticket and the price of a child ticket.
- 21) New York City 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 10 vans and 8 buses with 514 students. High School B rented and filled 5 vans and 11 buses with 628 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) The local amusement 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 9 vans and 5 buses with 355 students. High School B rented and filled 2 vans and 10 buses with 470 students. Each van and each bus carried the same number of students. Find the number of



- 23) New York City 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 4 buses with 212 students. High School B rented and filled 2 vans and 8 buses with 304 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?
- 24) 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 3 vans and 6 buses with 204 students. High School B rented and filled 6 vans and 10 buses with 358 students. Every van had the same number of students in it as did the buses. How many students can a van carry? How many students can a bus carry?



Answers to Assignment (ID: 10)

- 1) apple pie: \$12, pumpkin pie: \$20
- 2) small box of oranges: \$6, large box of oranges: \$7
- 3) pecan cheesecake: \$8, apple cheesecake: \$16
- 4) roll of plain wrapping paper: \$7, roll of holiday wrapping paper: \$15
- 5) package of chocolate chip cookie dough: \$9, package of double chocolate cookie dough: \$17
- 6) small box of oranges: \$10, large box of oranges: \$14
- 7) roll of plain wrapping paper: \$5, roll of shiny wrapping paper: \$12
- 8) package of chocolate chip cookie dough: \$7, package of double chocolate cookie dough: \$13
- 9) rose bush: \$6, pot of ivy: \$5
- 10) ft² of grass sod: \$12, geranium: \$8
- 11) daylily: \$10, bunch of ornamental grass: \$9
- 12) hosta: \$8, geranium: \$11
- 13) rose bush: \$11, geranium: \$9
- 14) daylily: \$9, pot of ivy: \$12
- 15) senior citizen ticket: \$13, student ticket: \$5
- 16) senior citizen ticket: \$6, student ticket: \$3
- 17) adult ticket: \$11, child ticket: \$14
- 18) adult ticket: \$4, student ticket: \$11
- 19) senior citizen ticket: \$9, student ticket: \$9
- 20) adult ticket: \$6, child ticket: \$7
- 21) Van: 9, Bus: 53
- 22) Van: 15, Bus: 44
- 23) Van: 12, Bus: 35
- 24) Van: 18, Bus: 25

