

## Assignment

- 1) Flying with the wind a plane went 238 mph. Flying into the same wind the plane only went 222 mph. Find the speed of the plane in still air and the speed of the wind.
- 2) Traveling with the current a certain boat went 12 km/h. Against the same current it only went 2 km/h. Find the speed of the boat in still water and the speed of the current.
- 3) Traveling downstream a certain boat went 13 km/h. Traveling upstream it only went 3 km/h. What is the speed of the current? How fast would the boat go if there were no current?
- 4) Flying to Abuja with a tailwind a plane averaged 324 km/h. On the return trip the plane only averaged 286 km/h while flying back into the same wind. What is the speed of the wind? How fast would the plane go if there were no wind?
- 5) Flying with the wind a plane went 226 km/h. Flying into the same wind the plane only went 190 km/h. Find the speed of the plane in still air and the speed of the wind.
- 6) Chelsea and Matt are selling cheesecakes for a school fundraiser. Customers can buy New York style cheesecakes and strawberry cheesecakes. Chelsea sold 2 New York style cheesecakes and 2 strawberry cheesecakes for a total of \$62. Matt sold 6 New York style cheesecakes and 2 strawberry cheesecakes for a total of \$122. Find the cost each of one New York style cheesecake and one strawberry cheesecake.
- 7) Danielle and Mike are selling pies for a school fundraiser. Customers can buy cherry pies and pumpkin pies. Danielle sold 8 cherry pies and 6 pumpkin pies for a total of \$160. Mike sold 8 cherry pies and 5 pumpkin pies for a total of \$148. Find the cost each of one cherry pie and one pumpkin pie.
- 8) Ryan and Sarawong are selling cookie dough for a school fundraiser. Customers can buy packages of chocolate chip cookie dough and packages of gingerbread cookie dough. Ryan sold 4 packages of chocolate chip cookie dough and 2 packages of gingerbread cookie dough for a total of \$68. Sarawong sold 4 packages of chocolate chip cookie dough and 8 packages of gingerbread cookie dough for a total of \$164. What is the cost each of one package of chocolate chip cookie dough and one package of gingerbread cookie dough?
- 9) Carlos and Sumalee are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and strawberry cheesecakes. Carlos sold 8 pecan cheesecakes and 6 strawberry cheesecakes for a total of \$186. Sumalee sold 1 pecan cheesecake and 6 strawberry cheesecakes for a total of \$102. Find the cost each of one pecan cheesecake and one strawberry cheesecake.



- 10) Cody and Abhasra are selling pies for a school fundraiser. Customers can buy blueberry pies and blackberry pies. Cody sold 5 blueberry pies and 2 blackberry pies for a total of \$92. Abhasra sold 4 blueberry pies and 2 blackberry pies for a total of \$80. What is the cost each of one blueberry pie and one blackberry pie?
- 11) Willie and Shreya each improved their yards by planting rose bushes and geraniums. They bought their supplies from the same store. Willie spent \$74 on 7 rose bushes and 6 geraniums. Shreya spent \$24 on 7 rose bushes and 1 geranium. Find the cost of one rose bush and the cost of one geranium.
- 12) Kathryn and Stefan each improved their yards by planting hostas and geraniums. They bought their supplies from the same store. Kathryn spent \$82 on 1 hosta and 7 geraniums. Stefan spent \$72 on 1 hosta and 6 geraniums. Find the cost of one hosta and the cost of one geranium.
- 13) Shanice and Arjun each improved their yards by planting daylilies and ivy. They bought their supplies from the same store. Shanice spent \$71 on 5 daylilies and 4 pots of ivy. Arjun spent \$104 on 8 daylilies and 4 pots of ivy. What is the cost of one daylily and the cost of one pot of ivy?
- 14) Pranav and Shanice each improved their yards by planting daylilies and shrubs. They bought their supplies from the same store. Pranav spent \$44 on 7 daylilies and 1 shrub. Shanice spent \$56 on 7 daylilies and 7 shrubs. Find the cost of one daylily and the cost of one shrub.
- 15) Sumalee and Darryl each improved their yards by planting grass sod and shrubs. They bought their supplies from the same store. Sumalee spent \$44 on 2 ft<sup>2</sup> of grass sod and 5 shrubs. Darryl spent \$38 on 2 ft<sup>2</sup> of grass sod and 4 shrubs. Find the cost of one ft<sup>2</sup> of grass sod and the cost of one shrub.
- 16) Totsakan's school is selling tickets to the annual talent show. On the first day of ticket sales the school sold 7 senior citizen tickets and 8 student tickets for a total of \$60. The school took in \$36 on the second day by selling 1 senior citizen ticket and 8 student tickets. What is the price each of one senior citizen ticket and one student ticket?
- 17) Kali and Kathryn each improved their yards by planting hostas and shrubs. They bought their supplies from the same store. Kali spent \$64 on 1 hosta and 5 shrubs. Kathryn spent \$72 on 3 hostas and 5 shrubs. Find the cost of one hosta and the cost of one shrub.
- 18) The school that Matt goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 3 senior citizen tickets and 3 child tickets for a total of \$69. The school took in \$51 on the second day by selling 1 senior citizen ticket and 3 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 19) Mary's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 8 adult tickets and 7 child tickets for a total of \$204. The school took in \$189 on the second day by selling 7 adult tickets and 7 child tickets. What is the price each of one adult ticket and one child ticket?



- 20) The school that Lisa goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 8 adult tickets and 3 student tickets for a total of \$71. The school took in \$36 on the second day by selling 3 adult tickets and 3 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 21) Paul's school is selling tickets to a choral performance. On the first day of ticket sales the school sold 8 adult tickets and 7 child tickets for a total of \$117. The school took in \$99 on the second day by selling 8 adult tickets and 1 child ticket. What is the price each of one adult ticket and one child ticket?
- 22) The school that Beth goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 7 senior citizen tickets and 3 child tickets for a total of \$74. The school took in \$100 on the second day by selling 7 senior citizen tickets and 5 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 23) Going down the river a boat went 9 mph. Going up the river it only went 1 mph. Find the speed of the boat in still water and the speed of the current.
- 24) The school that Shawna goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 3 senior citizen tickets and 4 student tickets for a total of \$43. The school took in \$61 on the second day by selling 5 senior citizen tickets and 4 student tickets. What is the price each of one senior citizen ticket and one student ticket?



## Answers to Assignment (ID: 1)

- 1) Plane: 230 mph, Wind: 8 mph
- 2) Boat: 7 km/h, Current: 5 km/h
- 3) Boat: 8 km/h, Current: 5 km/h
- 4) Plane: 305 km/h, Wind: 19 km/h
- 5) Plane: 208 km/h, Wind: 18 km/h
- 6) New York style cheesecake: \$15, strawberry cheesecake: \$16
- 7) cherry pie: \$11, pumpkin pie: \$12
- 8) package of chocolate chip cookie dough: \$9, package of gingerbread cookie dough: \$16
- 9) pecan cheesecake: \$12, strawberry cheesecake: \$15
- 10) blueberry pie: \$12, blackberry pie: \$16
- 11) rose bush: \$2, geranium: \$10
- 12) hosta: \$12, geranium: \$10
- 13) daylily: \$11, pot of ivy: \$4
- 14) daylily: \$6, shrub: \$2
- 15) ft<sup>2</sup> of grass sod: \$7, shrub: \$6
- 16) senior citizen ticket: \$4, student ticket: \$4
- 17) hosta: \$4, shrub: \$12
- 18) senior citizen ticket: \$9, child ticket: \$14
- 19) adult ticket: \$15, child ticket: \$12
- 20) adult ticket: \$7, student ticket: \$5
- 21) adult ticket: \$12, child ticket: \$3
- 22) senior citizen ticket: \$5, child ticket: \$13
- 23) Boat: 5 mph, Current: 4 mph
- 24) senior citizen ticket: \$9, student ticket: \$4



## Assignment

- 1) Jenny and Jacob are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Jenny sold 7 small boxes of oranges and 7 large boxes of oranges for a total of \$203. Jacob sold 7 small boxes of oranges and 8 large boxes of oranges for a total of \$219. Find the cost each of one small box of oranges and one large box of oranges.
  
- 2) Jack and Amanda each improved their yards by planting hostas and ornamental grass. They bought their supplies from the same store. Jack spent \$15 on 1 hosta and 1 bunch of ornamental grass. Amanda spent \$57 on 8 hostas and 1 bunch of ornamental grass. Find the cost of one hosta and the cost of one bunch of ornamental grass.
  
- 3) Flying to Moscow with a tailwind a plane averaged 252 mph. On the return trip the plane only averaged 216 mph while flying back into the same wind. Find the speed of the wind and the speed of the plane in still air.
  
- 4) Ted and Gabriella each improved their yards by planting rose bushes and geraniums. They bought their supplies from the same store. Ted spent \$98 on 5 rose bushes and 4 geraniums. Gabriella spent \$62 on 5 rose bushes and 1 geranium. Find the cost of one rose bush and the cost of one geranium.
  
- 5) The difference of two numbers is 1. Their sum is 13. What are the numbers?
  
- 6) Gabriella and Julio each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Gabriella spent \$80 on 2 hostas and 6 pots of ivy. Julio spent \$94 on 4 hostas and 6 pots of ivy. Find the cost of one hosta and the cost of one pot of ivy.
  
- 7) The difference of two numbers is 4. Their sum is 12. What are the numbers?
  
- 8) Flying to Las Vegas with a tailwind a plane averaged 163 km/h. On the return trip the plane only averaged 109 km/h while flying back into the same wind. Find the speed of the plane in still air and the speed of the wind.
  
- 9) Daniel and Mark each improved their yards by planting daylilies and geraniums. They bought their supplies from the same store. Daniel spent \$25 on 1 daylily and 2 geraniums. Mark spent \$91 on 1 daylily and 8 geraniums. What is the cost of one daylily and the cost of one geranium?



- 10) The difference of two numbers is 3. Their sum is 11. Find the numbers.
- 11) Elisa's school is selling tickets to the annual talent show. On the first day of ticket sales the school sold 2 adult tickets and 1 student ticket for a total of \$44. The school took in \$100 on the second day by selling 2 adult tickets and 5 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 12) Trevon and Mofor each improved their yards by planting daylilies and shrubs. They bought their supplies from the same store. Trevon spent \$24 on 2 daylilies and 5 shrubs. Mofor spent \$30 on 2 daylilies and 8 shrubs. Find the cost of one daylily and the cost of one shrub.
- 13) Dan and Jack are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Dan sold 3 small boxes of oranges and 3 large boxes of oranges for a total of \$60. Jack sold 2 small boxes of oranges and 3 large boxes of oranges for a total of \$52. Find the cost each of one small box of oranges and one large box of oranges.
- 14) Imani and Asanji each improved their yards by planting daylilies and ornamental grass. They bought their supplies from the same store. Imani spent \$90 on 5 daylilies and 5 bunches of ornamental grass. Asanji spent \$98 on 5 daylilies and 6 bunches of ornamental grass. Find the cost of one daylily and the cost of one bunch of ornamental grass.
- 15) Molly and Shayna are selling pies for a school fundraiser. Customers can buy apple pies and pumpkin pies. Molly sold 7 apple pies and 1 pumpkin pie for a total of \$65. Shayna sold 2 apple pies and 1 pumpkin pie for a total of \$30. Find the cost each of one apple pie and one pumpkin pie.
- 16) Flying to Dar es Salaam with a tailwind a plane averaged 355 mph. On the return trip the plane only averaged 287 mph while flying back into the same wind. Find the speed of the plane in still air and the speed of the wind.
- 17) The sum of two numbers is 12. Their difference is 2. Find the numbers.
- 18) Flying to Havana with a tailwind a plane averaged 274 mph. On the return trip the plane only averaged 232 mph while flying back into the same wind. What is the speed of the wind? How fast would the plane go if there were no wind?
- 19) Find the value of two numbers if their sum is 13 and their difference is 3.



- 20) Traveling with the current a certain boat went 12 mph. Against the same current it only went 4 mph. Find the speed of the boat in still water and the speed of the current.
- 21) Traveling downstream a certain boat went 13 mph. Traveling upstream it only went 1 mph. Find the speed of the boat in still water and the speed of the current.
- 22) Traveling with the current a certain boat went 9 km/h. Against the same current it only went 1 km/h. Find the speed of the boat in still water and the speed of the current.
- 23) Flying to Bangkok with a tailwind a plane averaged 235 km/h. On the return trip the plane only averaged 175 km/h while flying back into the same wind. What is the speed of the wind? How fast would the plane go if there were no wind?
- 24) Traveling downstream a certain boat went 10 km/h. Traveling upstream it only went 2 km/h. Find the speed of the boat in still water and the speed of the current.



## Answers to Assignment (ID: 2)

- 1) small box of oranges: \$13, large box of oranges: \$16 2) hosta: \$6, bunch of ornamental grass: \$9  
3) Plane: 234 mph, Wind: 18 mph 4) rose bush: \$10, geranium: \$12 5) 6 and 7  
6) hosta: \$7, pot of ivy: \$11 7) 4 and 8 8) Plane: 136 km/h, Wind: 27 km/h  
9) daylily: \$3, geranium: \$11 10) 4 and 7  
11) adult ticket: \$15, student ticket: \$14 12) daylily: \$7, shrub: \$2  
13) small box of oranges: \$8, large box of oranges: \$12 14) daylily: \$10, bunch of ornamental grass: \$8  
15) apple pie: \$7, pumpkin pie: \$16 16) Plane: 321 mph, Wind: 34 mph  
17) 5 and 7 18) Plane: 253 mph, Wind: 21 mph 19) 5 and 8  
20) Boat: 8 mph, Current: 4 mph 21) Boat: 7 mph, Current: 6 mph 22) Boat: 5 km/h, Current: 4 km/h  
23) Plane: 205 km/h, Wind: 30 km/h 24) Boat: 6 km/h, Current: 4 km/h





## Assignment

- 1) Mark and Kathryn are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and bags of daffodil bulbs. Mark sold 6 packages of tulip bulbs and 1 bag of daffodil bulbs for a total of \$86. Kathryn sold 3 packages of tulip bulbs and 1 bag of daffodil bulbs for a total of \$53. Find the cost each of one package of tulips bulbs and one bag of daffodil bulbs.
- 2) Mei and Aliyah are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Mei sold 6 rolls of plain wrapping paper and 2 rolls of holiday wrapping paper for a total of \$112. Aliyah sold 5 rolls of plain wrapping paper and 2 rolls of holiday wrapping paper for a total of \$99. Find the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper.
- 3) Jose and Willie are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and strawberry cheesecakes. Jose sold 7 pecan cheesecakes and 7 strawberry cheesecakes for a total of \$112. Willie sold 1 pecan cheesecake and 7 strawberry cheesecakes for a total of \$82. Find the cost each of one pecan cheesecake and one strawberry cheesecake.
- 4) Jessica and Trevon are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and packages of crocus bulbs. Jessica sold 3 bags of windflower bulbs and 5 packages of crocus bulbs for a total of \$143. Trevon sold 2 bags of windflower bulbs and 5 packages of crocus bulbs for a total of \$127. What is the cost each of one bag of windflower bulbs and one package of crocus bulbs?
- 5) Jacob and Cody are selling pies for a school fundraiser. Customers can buy cherry pies and lemon meringue pies. Jacob sold 1 cherry pie and 7 lemon meringue pies for a total of \$123. Cody sold 1 cherry pie and 2 lemon meringue pies for a total of \$43. What is the cost each of one cherry pie and one lemon meringue pie?
- 6) Amanda and Eduardo each improved their yards by planting hostas and shrubs. They bought their supplies from the same store. Amanda spent \$147 on 7 hostas and 7 shrubs. Eduardo spent \$99 on 7 hostas and 3 shrubs. What is the cost of one hosta and the cost of one shrub?
- 7) Natalie and Castel are selling cookie dough for a school fundraiser. Customers can buy packages of white chocolate chip cookie dough and packages of gingerbread cookie dough. Natalie sold 3 packages of white chocolate chip cookie dough and 1 package of gingerbread cookie dough for a total of \$58. Castel sold 3 packages of white chocolate chip cookie dough and 3 packages of gingerbread cookie dough for a total of \$90. Find the cost each of one package of white chocolate chip cookie dough and one package of gingerbread cookie dough.
- 8) Stephanie and Ryan each improved their yards by planting hostas and geraniums. They bought their supplies from the same store. Stephanie spent \$22 on 5 hostas and 3 geraniums. Ryan spent \$18 on 3 hostas and 3 geraniums. What is the cost of one hosta and the cost of one geranium?
- 9) Scott and Danielle each improved their yards by planting rose bushes and shrubs. They bought their supplies from the same store. Scott spent \$96 on 1 rose bush and 7 shrubs. Danielle spent \$168 on 7 rose bushes and 7 shrubs. What is the cost of one rose bush and the cost of one shrub?



- 10) Alberto and Stephanie each improved their yards by planting grass sod and geraniums. They bought their supplies from the same store. Alberto spent \$69 on 3 ft<sup>2</sup> of grass sod and 3 geraniums. Stephanie spent \$91 on 5 ft<sup>2</sup> of grass sod and 3 geraniums. Find the cost of one ft<sup>2</sup> of grass sod and the cost of one geranium.
- 11) Castel and Nicole each improved their yards by planting grass sod and shrubs. They bought their supplies from the same store. Castel spent \$65 on 7 ft<sup>2</sup> of grass sod and 1 shrub. Nicole spent \$119 on 7 ft<sup>2</sup> of grass sod and 7 shrubs. Find the cost of one ft<sup>2</sup> of grass sod and the cost of one shrub.
- 12) DeShawn and Ashley each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. DeShawn spent \$78 on 4 ft<sup>2</sup> of grass sod and 6 bunches of ornamental grass. Ashley spent \$87 on 5 ft<sup>2</sup> of grass sod and 6 bunches of ornamental grass. Find the cost of one ft<sup>2</sup> of grass sod and the cost of one bunch of ornamental grass.
- 13) The school that Darryl goes to is selling tickets to a play. On the first day of ticket sales the school sold 6 adult tickets and 8 child tickets for a total of \$98. The school took in \$91 on the second day by selling 6 adult tickets and 7 child tickets. What is the price each of one adult ticket and one child ticket?
- 14) Aliyah's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 6 adult tickets and 4 student tickets for a total of \$120. The school took in \$96 on the second day by selling 4 adult tickets and 4 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 15) The school that Ming goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 5 senior citizen tickets and 8 student tickets for a total of \$105. The school took in \$95 on the second day by selling 5 senior citizen tickets and 7 student tickets. What is the price each of one senior citizen ticket and one student ticket?
- 16) Shreya's school is selling tickets to a play. On the first day of ticket sales the school sold 5 senior citizen tickets and 3 child tickets for a total of \$74. The school took in \$82 on the second day by selling 5 senior citizen tickets and 4 child tickets. What is the price each of one senior citizen ticket and one child ticket?
- 17) Abhasra's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 8 adult tickets and 8 student tickets for a total of \$112. The school took in \$80 on the second day by selling 4 adult tickets and 8 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 18) The school that Norachai goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 4 adult tickets and 3 student tickets for a total of \$61. The school took in \$64 on the second day by selling 4 adult tickets and 4 student tickets. What is the price each of one adult ticket and one student ticket?
- 19) The school that Jimmy 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 \$96. The school took in \$108 on the second day by selling 4 senior citizen tickets and 5 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.



- 20) Huong and Mei are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. Huong sold 7 rolls of plain wrapping paper and 8 rolls of shiny wrapping paper for a total of \$195. Mei sold 8 rolls of plain wrapping paper and 8 rolls of shiny wrapping paper for a total of \$208. Find the cost each of one roll of plain wrapping paper and one roll of shiny wrapping paper.
- 21) Bill and Jack each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Bill spent \$57 on 3 ft<sup>2</sup> of grass sod and 8 bunches of ornamental grass. Jack spent \$51 on 3 ft<sup>2</sup> of grass sod and 7 bunches of ornamental grass. Find the cost of one ft<sup>2</sup> of grass sod and the cost of one bunch of ornamental grass.
- 22) Jennifer and Adam each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Jennifer spent \$82 on 7 hostas and 1 pot of ivy. Adam spent \$71 on 6 hostas and 1 pot of ivy. What is the cost of one hosta and the cost of one pot of ivy?
- 23) Shayna and Shawna are selling cheesecakes for a school fundraiser. Customers can buy French silk cheesecakes and chocolate marble cheesecakes. Shayna sold 8 French silk cheesecakes and 6 chocolate marble cheesecakes for a total of \$144. Shawna sold 8 French silk cheesecakes and 1 chocolate marble cheesecake for a total of \$64. What is the cost each of one French silk cheesecake and one chocolate marble cheesecake?
- 24) Going down the river a boat went 11 km/h. Going up the river it only went 3 km/h. Find the speed of the boat in still water and the speed of the current.



## Answers to Assignment (ID: 3)

- 1) package of tulips bulbs: \$11, bag of daffodil bulbs: \$20
- 2) roll of plain wrapping paper: \$13, roll of holiday wrapping paper: \$17
- 3) pecan cheesecake: \$5, strawberry cheesecake: \$11
- 4) bag of windflower bulbs: \$16, package of crocus bulbs: \$19
- 5) cherry pie: \$11, lemon meringue pie: \$16
- 6) hosta: \$9, shrub: \$12
- 7) package of white chocolate chip cookie dough: \$14, package of gingerbread cookie dough: \$16
- 8) hosta: \$2, geranium: \$4
- 9) rose bush: \$12, shrub: \$12
- 10) ft<sup>2</sup> of grass sod: \$11, geranium: \$12
- 11) ft<sup>2</sup> of grass sod: \$8, shrub: \$9
- 12) ft<sup>2</sup> of grass sod: \$9, bunch of ornamental grass: \$7
- 13) adult ticket: \$7, child ticket: \$7
- 14) adult ticket: \$12, student ticket: \$12
- 15) senior citizen ticket: \$5, student ticket: \$10
- 16) senior citizen ticket: \$10, child ticket: \$8
- 17) adult ticket: \$8, student ticket: \$6
- 18) adult ticket: \$13, student ticket: \$3
- 19) senior citizen ticket: \$12, child ticket: \$12
- 20) roll of plain wrapping paper: \$13, roll of shiny wrapping paper: \$13
- 21) ft<sup>2</sup> of grass sod: \$3, bunch of ornamental grass: \$6
- 22) hosta: \$11, pot of ivy: \$5
- 23) French silk cheesecake: \$6, chocolate marble cheesecake: \$16
- 24) Boat: 7 km/h, Current: 4 km/h



## Assignment

- 1) The difference of two numbers is 3. Their sum is 13. Find the numbers.
- 2) The sum of two numbers is 11. Their difference is 3. Find the numbers.
- 3) The sum of two numbers is 9. Their difference is 1. What are the numbers?
- 4) Going down the river a boat went 12 mph. Going up the river it only went 4 mph. Find the current and the speed of the boat if there were no current.
- 5) The school that Julio goes to is selling tickets to a play. On the first day of ticket sales the school sold 1 adult ticket and 8 student tickets for a total of \$44. The school took in \$36 on the second day by selling 1 adult ticket and 6 student tickets. What is the price each of one adult ticket and one student ticket?
- 6) The school that Maria goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 4 adult tickets and 2 student tickets for a total of \$36. The school took in \$21 on the second day by selling 1 adult ticket and 2 student tickets. What is the price each of one adult ticket and one student ticket?
- 7) The school that Jasmine goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 4 senior citizen tickets and 5 child tickets for a total of \$65. The school took in \$60 on the second day by selling 3 senior citizen tickets and 5 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 8) The school that Eugene goes to is selling tickets to a play. On the first day of ticket sales the school sold 7 adult tickets and 1 student ticket for a total of \$64. The school took in \$72 on the second day by selling 8 adult tickets and 1 student ticket. What is the price each of one adult ticket and one student ticket?
- 9) Ashley and Mike each improved their yards by planting grass sod and geraniums. They bought their supplies from the same store. Ashley spent \$61 on 5 ft<sup>2</sup> of grass sod and 4 geraniums. Mike spent \$41 on 1 ft<sup>2</sup> of grass sod and 4 geraniums. What is the cost of one ft<sup>2</sup> of grass sod and the cost of one geranium?
- 10) The sum of two numbers is 10. Their difference is 2. Find the numbers.



- 11) Chelsea and Norachai are selling cookie dough for a school fundraiser. Customers can buy packages of chocolate chip cookie dough and packages of gingerbread cookie dough. Chelsea sold 7 packages of chocolate chip cookie dough and 1 package of gingerbread cookie dough for a total of \$46. Norachai sold 7 packages of chocolate chip cookie dough and 5 packages of gingerbread cookie dough for a total of \$118. Find the cost each of one package of chocolate chip cookie dough and one package of gingerbread cookie dough.
- 12) Danielle and Jaidee are selling cookie dough for a school fundraiser. Customers can buy packages of white chocolate chip cookie dough and packages of oatmeal cookie dough. Danielle sold 8 packages of white chocolate chip cookie dough and 8 packages of oatmeal cookie dough for a total of \$160. Jaidee sold 4 packages of white chocolate chip cookie dough and 8 packages of oatmeal cookie dough for a total of \$120. What is the cost each of one package of white chocolate chip cookie dough and one package of oatmeal cookie dough?
- 13) The difference of two numbers is 2. Their sum is 12. Find the numbers.
- 14) The difference of two numbers is 1. Their sum is 11. What are the numbers?
- 15) Find the value of two numbers if their sum is 15 and their difference is 1.
- 16) Traveling downstream a certain boat went 12 mph. Traveling upstream it only went 2 mph. Find the current and the speed of the boat if there were no current.
- 17) Traveling with the current a certain boat went 15 mph. Against the same current it only went 1 mph. What is the speed of the current? How fast would the boat go if there were no current?
- 18) Flying to New York City with a tailwind a plane averaged 238 km/h. On the return trip the plane only averaged 218 km/h while flying back into the same wind. Find the speed of the plane in still air and the speed of the wind.
- 19) Going down the river a boat went 11 km/h. Going up the river it only went 3 km/h. What is the speed of the current? How fast would the boat go if there were no current?
- 20) Flying with the wind a plane went 113 mph. Flying into the same wind the plane only went 97 mph. Find the speed of the wind and the speed of the plane in still air.
- 21) Lisa and Danielle are selling cookie dough for a school fundraiser. Customers can buy packages of white chocolate chip cookie dough and packages of oatmeal cookie dough. Lisa sold 7 packages of white chocolate chip cookie dough and 3 packages of oatmeal cookie dough for a total of \$144. Danielle sold 7 packages of white chocolate chip cookie dough and 5 packages of oatmeal cookie dough for a total of \$184. Find the cost each of one package of white chocolate chip cookie dough and one package of oatmeal cookie dough.



- 22) Paul and Chelsea are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and chocolate marble cheesecakes. Paul sold 3 pecan cheesecakes and 5 chocolate marble cheesecakes for a total of \$135. Chelsea sold 3 pecan cheesecakes and 1 chocolate marble cheesecake for a total of \$63. What is the cost each of one pecan cheesecake and one chocolate marble cheesecake?
- 23) Beth and Amanda are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and bags of daffodil bulbs. Beth sold 7 packages of tulip bulbs and 2 bags of daffodil bulbs for a total of \$89. Amanda sold 7 packages of tulip bulbs and 5 bags of daffodil bulbs for a total of \$149. Find the cost each of one package of tulips bulbs and one bag of daffodil bulbs.
- 24) Mofor and Ashley are selling cookie dough for a school fundraiser. Customers can buy packages of sugar cookie dough and packages of oatmeal cookie dough. Mofor sold 2 packages of sugar cookie dough and 2 packages of oatmeal cookie dough for a total of \$56. Ashley sold 1 package of sugar cookie dough and 2 packages of oatmeal cookie dough for a total of \$43. Find the cost each of one package of sugar cookie dough and one package of oatmeal cookie dough.



## Answers to Assignment (ID: 4)

- 1) 5 and 8
- 2) 4 and 7
- 3) 4 and 5
- 4) Boat: 8 mph, Current: 4 mph
- 5) adult ticket: \$12, student ticket: \$4
- 6) adult ticket: \$5, student ticket: \$8
- 7) senior citizen ticket: \$5, child ticket: \$9
- 8) adult ticket: \$8, student ticket: \$8
- 9) ft<sup>2</sup> of grass sod: \$5, geranium: \$9
- 10) 4 and 6
- 11) package of chocolate chip cookie dough: \$4, package of gingerbread cookie dough: \$18
- 12) package of white chocolate chip cookie dough: \$10, package of oatmeal cookie dough: \$10
- 13) 5 and 7
- 14) 5 and 6
- 15) 7 and 8
- 16) Boat: 7 mph, Current: 5 mph
- 17) Boat: 8 mph, Current: 7 mph
- 18) Plane: 228 km/h, Wind: 10 km/h
- 19) Boat: 7 km/h, Current: 4 km/h
- 20) Plane: 105 mph, Wind: 8 mph
- 21) package of white chocolate chip cookie dough: \$12, package of oatmeal cookie dough: \$20
- 22) pecan cheesecake: \$15, chocolate marble cheesecake: \$18
- 23) package of tulips bulbs: \$7, bag of daffodil bulbs: \$20
- 24) package of sugar cookie dough: \$13, package of oatmeal cookie dough: \$15





## Assignment

- 1) Ted and Lea each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Ted spent \$71 on 5 hostas and 7 pots of ivy. Lea spent \$63 on 5 hostas and 6 pots of ivy. What is the cost of one hosta and the cost of one pot of ivy?
- 2) Jack and Jacob are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and packages of crocus bulbs. Jack sold 6 bags of windflower bulbs and 1 package of crocus bulbs for a total of \$62. Jacob sold 6 bags of windflower bulbs and 6 packages of crocus bulbs for a total of \$132. What is the cost each of one bag of windflower bulbs and one package of crocus bulbs?
- 3) Jenny and Maria each improved their yards by planting grass sod and geraniums. They bought their supplies from the same store. Jenny spent \$41 on 5 ft<sup>2</sup> of grass sod and 3 geraniums. Maria spent \$25 on 1 ft<sup>2</sup> of grass sod and 3 geraniums. What is the cost of one ft<sup>2</sup> of grass sod and the cost of one geranium?
- 4) Shawna and Emily are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and chocolate marble cheesecakes. Shawna sold 7 pecan cheesecakes and 5 chocolate marble cheesecakes for a total of \$233. Emily sold 1 pecan cheesecake and 5 chocolate marble cheesecakes for a total of \$119. What is the cost each of one pecan cheesecake and one chocolate marble cheesecake?
- 5) Joe and Jose each improved their yards by planting grass sod and shrubs. They bought their supplies from the same store. Joe spent \$39 on 4 ft<sup>2</sup> of grass sod and 1 shrub. Jose spent \$51 on 4 ft<sup>2</sup> of grass sod and 5 shrubs. What is the cost of one ft<sup>2</sup> of grass sod and the cost of one shrub?
- 6) Lea and Jenny each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Lea spent \$68 on 7 ft<sup>2</sup> of grass sod and 6 bunches of ornamental grass. Jenny spent \$59 on 7 ft<sup>2</sup> of grass sod and 5 bunches of ornamental grass. What is the cost of one ft<sup>2</sup> of grass sod and the cost of one bunch of ornamental grass?
- 7) Emily and Ted each improved their yards by planting grass sod and geraniums. They bought their supplies from the same store. Emily spent \$91 on 1 ft<sup>2</sup> of grass sod and 8 geraniums. Ted spent \$135 on 5 ft<sup>2</sup> of grass sod and 8 geraniums. Find the cost of one ft<sup>2</sup> of grass sod and the cost of one geranium.
- 8) Gabriella and James each improved their yards by planting daylilies and shrubs. They bought their supplies from the same store. Gabriella spent \$50 on 4 daylilies and 1 shrub. James spent \$61 on 5 daylilies and 1 shrub. What is the cost of one daylily and the cost of one shrub?



- 9) The school that Kayla goes to is selling tickets to a spring musical. On the first day of ticket sales the school sold 8 senior citizen tickets and 1 student ticket for a total of \$125. The school took in \$50 on the second day by selling 3 senior citizen tickets and 1 student ticket. Find the price of a senior citizen ticket and the price of a student ticket.
- 10) Daniel's school is selling tickets to a choral performance. On the first day of ticket sales the school sold 2 adult tickets and 1 student ticket for a total of \$29. The school took in \$89 on the second day by selling 2 adult tickets and 5 student tickets. What is the price each of one adult ticket and one student ticket?
- 11) Eduardo'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 child tickets for a total of \$60. The school took in \$16 on the second day by selling 1 senior citizen ticket and 1 child ticket. What is the price each of one senior citizen ticket and one child ticket?
- 12) Find the value of two numbers if their sum is 10 and their difference is 2.
- 13) The school that Dan goes to is selling tickets to a play. On the first day of ticket sales the school sold 8 adult tickets and 1 child ticket for a total of \$117. The school took in \$39 on the second day by selling 2 adult tickets and 1 child ticket. Find the price of an adult ticket and the price of a child ticket.
- 14) The school that Elisa goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 1 senior citizen ticket and 1 student ticket for a total of \$20. The school took in \$56 on the second day by selling 1 senior citizen ticket and 5 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 15) The school that Imani goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 6 adult tickets and 8 child tickets for a total of \$64. The school took in \$44 on the second day by selling 1 adult ticket and 8 child tickets. Find the price of an adult ticket and the price of a child ticket.
- 16) Molly's school is selling tickets to a choral performance. On the first day of ticket sales the school sold 2 adult tickets and 5 child tickets for a total of \$90. The school took in \$135 on the second day by selling 5 adult tickets and 5 child tickets. What is the price each of one adult ticket and one child ticket?
- 17) Arjun and Bill each improved their yards by planting hostas and geraniums. They bought their supplies from the same store. Arjun spent \$49 on 7 hostas and 1 geranium. Bill spent \$84 on 7 hostas and 6 geraniums. What is the cost of one hosta and the cost of one geranium?
- 18) Anjali and Wilbur are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Anjali sold 5 small boxes of oranges and 5 large boxes of oranges for a total of \$105. Wilbur sold 2 small boxes of oranges and 5 large boxes of oranges for a total of \$93. Find the cost each of one small box of oranges and one large box of oranges.



- 19) Jaidee and Heather are selling fruit for a school fundraiser. Customers can buy small boxes of grapefruit and large boxes of grapefruit. Jaidee sold 7 small boxes of grapefruit and 8 large boxes of grapefruit for a total of \$190. Heather sold 1 small box of grapefruit and 8 large boxes of grapefruit for a total of \$130. Find the cost each of one small box of grapefruit and one large box of grapefruit.
- 20) Find the value of two numbers if their sum is 13 and their difference is 3.
- 21) Traveling with the current a certain boat went 10 mph. Against the same current it only went 2 mph. Find the speed of the boat in still water and the speed of the current.
- 22) The sum of two numbers is 9. Their difference is 1. Find the numbers.
- 23) The sum of two numbers is 12. Their difference is 2. Find the numbers.
- 24) Rob and Anjali are selling cookie dough for a school fundraiser. Customers can buy packages of chocolate chip cookie dough and packages of oatmeal cookie dough. Rob sold 2 packages of chocolate chip cookie dough and 3 packages of oatmeal cookie dough for a total of \$57. Anjali sold 1 package of chocolate chip cookie dough and 3 packages of oatmeal cookie dough for a total of \$48. What is the cost each of one package of chocolate chip cookie dough and one package of oatmeal cookie dough?



## Answers to Assignment (ID: 5)

- 1) hosta: \$3, pot of ivy: \$8
- 2) bag of windflower bulbs: \$8, package of crocus bulbs: \$14
- 3) ft<sup>2</sup> of grass sod: \$4, geranium: \$7
- 4) pecan cheesecake: \$19, chocolate marble cheesecake: \$20
- 5) ft<sup>2</sup> of grass sod: \$9, shrub: \$3      6) ft<sup>2</sup> of grass sod: \$2, bunch of ornamental grass: \$9
- 7) ft<sup>2</sup> of grass sod: \$11, geranium: \$10      8) daylily: \$11, shrub: \$6
- 9) senior citizen ticket: \$15, student ticket: \$5      10) adult ticket: \$7, student ticket: \$15
- 11) senior citizen ticket: \$5, child ticket: \$11      12) 4 and 6
- 13) adult ticket: \$13, child ticket: \$13      14) senior citizen ticket: \$11, student ticket: \$9
- 15) adult ticket: \$4, child ticket: \$5      16) adult ticket: \$15, child ticket: \$12
- 17) hosta: \$6, geranium: \$7      18) small box of oranges: \$4, large box of oranges: \$17
- 19) small box of grapefruit: \$10, large box of grapefruit: \$15
- 20) 5 and 8      21) Boat: 6 mph, Current: 4 mph      22) 4 and 5
- 23) 5 and 7
- 24) package of chocolate chip cookie dough: \$9, package of oatmeal cookie dough: \$13



## Assignment

- 1) The sum of two numbers is 15. Their difference is 1. What are the numbers?
- 2) Going down the river a boat went 10 mph. Going up the river it only went 2 mph. What is the speed of the current? How fast would the boat go if there were no current?
- 3) Adam and Darryl each improved their yards by planting daylilies and geraniums. They bought their supplies from the same store. Adam spent \$70 on 7 daylilies and 3 geraniums. Darryl spent \$84 on 7 daylilies and 5 geraniums. Find the cost of one daylily and the cost of one geranium.
- 4) Brenda's school is selling tickets to a choral performance. On the first day of ticket sales the school sold 8 senior citizen tickets and 2 child tickets for a total of \$118. The school took in \$148 on the second day by selling 8 senior citizen tickets and 4 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 5) Mark and Willie each improved their yards by planting hostas and ornamental grass. They bought their supplies from the same store. Mark spent \$79 on 2 hostas and 5 bunches of ornamental grass. Willie spent \$90 on 2 hostas and 6 bunches of ornamental grass. Find the cost of one hosta and the cost of one bunch of ornamental grass.
- 6) Flying with the wind a plane went 363 mph. Flying into the same wind the plane only went 285 mph. What is the speed of the wind? How fast would the plane go if there were no wind?
- 7) Mei and DeShawn are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. Mei sold 6 rolls of plain wrapping paper and 4 rolls of shiny wrapping paper for a total of \$92. DeShawn sold 2 rolls of plain wrapping paper and 4 rolls of shiny wrapping paper for a total of \$76. Find the cost each of one roll of plain wrapping paper and one roll of shiny wrapping paper.
- 8) The difference of two numbers is 1. Their sum is 11. What are the numbers?
- 9) The sum of two numbers is 13. Their difference is 1. Find the numbers.
- 10) The difference of two numbers is 3. Their sum is 11. What are the numbers?



- 11) Going down the river a boat went 13 mph. Going up the river it only went 3 mph. Find the current and the speed of the boat if there were no current.
- 12) The sum of two numbers is 12. Their difference is 4. Find the numbers.
- 13) Flying with the wind a plane went 247 km/h. Flying into the same wind the plane only went 203 km/h. Find the speed of the wind and the speed of the plane in still air.
- 14) Traveling downstream a certain boat went 11 km/h. Traveling upstream it only went 3 km/h. What is the speed of the current? How fast would the boat go if there were no current?
- 15) Going down the river a boat went 13 km/h. Going up the river it only went 1 km/h. Find the current and the speed of the boat if there were no current.
- 16) Flying with the wind a plane went 235 mph. Flying into the same wind the plane only went 171 mph. Find the speed of the wind and the speed of the plane in still air.
- 17) Flying to Bangkok with a tailwind a plane averaged 149 km/h. On the return trip the plane only averaged 107 km/h while flying back into the same wind. Find the speed of the plane in still air and the speed of the wind.
- 18) Shreya and Jenny are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and chocolate marble cheesecakes. Shreya sold 7 pecan cheesecakes and 3 chocolate marble cheesecakes for a total of \$99. Jenny sold 7 pecan cheesecakes and 8 chocolate marble cheesecakes for a total of \$194. Find the cost each of one pecan cheesecake and one chocolate marble cheesecake.
- 19) Ming and Joe are selling cookie dough for a school fundraiser. Customers can buy packages of chocolate chip cookie dough and packages of gingerbread cookie dough. Ming sold 7 packages of chocolate chip cookie dough and 3 packages of gingerbread cookie dough for a total of \$100. Joe sold 7 packages of chocolate chip cookie dough and 2 packages of gingerbread cookie dough for a total of \$83. Find the cost each of one package of chocolate chip cookie dough and one package of gingerbread cookie dough.
- 20) Abhasra and Kim are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. Abhasra sold 2 rolls of plain wrapping paper and 4 rolls of shiny wrapping paper for a total of \$92. Kim sold 7 rolls of plain wrapping paper and 4 rolls of shiny wrapping paper for a total of \$152. Find the cost each of one roll of plain wrapping paper and one roll of shiny wrapping paper.



- 21) Norachai and Ted are selling cookie dough for a school fundraiser. Customers can buy packages of white chocolate chip cookie dough and packages of oatmeal cookie dough. Norachai sold 7 packages of white chocolate chip cookie dough and 3 packages of oatmeal cookie dough for a total of \$130. Ted sold 7 packages of white chocolate chip cookie dough and 4 packages of oatmeal cookie dough for a total of \$150. What is the cost each of one package of white chocolate chip cookie dough and one package of oatmeal cookie dough?
- 22) Jimmy and Perry are selling pies for a school fundraiser. Customers can buy blueberry pies and lemon meringue pies. Jimmy sold 5 blueberry pies and 5 lemon meringue pies for a total of \$125. Perry sold 1 blueberry pie and 5 lemon meringue pies for a total of \$105. What is the cost each of one blueberry pie and one lemon meringue pie?
- 23) Bill and Shawna each improved their yards by planting grass sod and ivy. They bought their supplies from the same store. Bill spent \$98 on 6 ft<sup>2</sup> of grass sod and 4 pots of ivy. Shawna spent \$87 on 6 ft<sup>2</sup> of grass sod and 3 pots of ivy. What is the cost of one ft<sup>2</sup> of grass sod and the cost of one pot of ivy?
- 24) Huong and Jill are selling cheesecakes for a school fundraiser. Customers can buy New York style cheesecakes and apple cheesecakes. Huong sold 7 New York style cheesecakes and 3 apple cheesecakes for a total of \$49. Jill sold 7 New York style cheesecakes and 6 apple cheesecakes for a total of \$70. Find the cost each of one New York style cheesecake and one apple cheesecake.



## Answers to Assignment (ID: 6)

- 1) 7 and 8
- 2) Boat: 6 mph, Current: 4 mph
- 3) daylily: \$7, geranium: \$7
- 4) senior citizen ticket: \$11, child ticket: \$15
- 5) hosta: \$12, bunch of ornamental grass: \$11
- 6) Plane: 324 mph, Wind: 39 mph
- 7) roll of plain wrapping paper: \$4, roll of shiny wrapping paper: \$17
- 8) 5 and 6
- 9) 6 and 7
- 10) 4 and 7
- 11) Boat: 8 mph, Current: 5 mph
- 12) 4 and 8
- 13) Plane: 225 km/h, Wind: 22 km/h
- 14) Boat: 7 km/h, Current: 4 km/h
- 15) Boat: 7 km/h, Current: 6 km/h
- 16) Plane: 203 mph, Wind: 32 mph
- 17) Plane: 128 km/h, Wind: 21 km/h
- 18) pecan cheesecake: \$6, chocolate marble cheesecake: \$19
- 19) package of chocolate chip cookie dough: \$7, package of gingerbread cookie dough: \$17
- 20) roll of plain wrapping paper: \$12, roll of shiny wrapping paper: \$17
- 21) package of white chocolate chip cookie dough: \$10, package of oatmeal cookie dough: \$20
- 22) blueberry pie: \$5, lemon meringue pie: \$20
- 23) ft<sup>2</sup> of grass sod: \$9, pot of ivy: \$11
- 24) New York style cheesecake: \$4, apple cheesecake: \$7





## Assignment

- 1) Jennifer and Asanji each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Jennifer spent \$55 on 5 ft<sup>2</sup> of grass sod and 2 bunches of ornamental grass. Asanji spent \$34 on 2 ft<sup>2</sup> of grass sod and 2 bunches of ornamental grass. What is the cost of one ft<sup>2</sup> of grass sod and the cost of one bunch of ornamental grass?
- 2) Shayna and Ndiba each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Shayna spent \$80 on 6 ft<sup>2</sup> of grass sod and 4 bunches of ornamental grass. Ndiba spent \$58 on 6 ft<sup>2</sup> of grass sod and 2 bunches of ornamental grass. What is the cost of one ft<sup>2</sup> of grass sod and the cost of one bunch of ornamental grass?
- 3) Kristin and Rob each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Kristin spent \$84 on 7 hostas and 7 pots of ivy. Rob spent \$79 on 7 hostas and 6 pots of ivy. Find the cost of one hosta and the cost of one pot of ivy.
- 4) Ndiba and Amy each improved their yards by planting grass sod and shrubs. They bought their supplies from the same store. Ndiba spent \$90 on 8 ft<sup>2</sup> of grass sod and 2 shrubs. Amy spent \$20 on 1 ft<sup>2</sup> of grass sod and 2 shrubs. Find the cost of one ft<sup>2</sup> of grass sod and the cost of one shrub.
- 5) Perry and Jennifer each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Perry spent \$46 on 3 hostas and 2 pots of ivy. Jennifer spent \$78 on 7 hostas and 2 pots of ivy. What is the cost of one hosta and the cost of one pot of ivy?
- 6) James' school is selling tickets to the annual talent show. On the first day of ticket sales the school sold 8 adult tickets and 6 student tickets for a total of \$164. The school took in \$174 on the second day by selling 8 adult tickets and 7 student tickets. What is the price each of one adult ticket and one student ticket?
- 7) The school that Kim goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 7 adult tickets and 2 child tickets for a total of \$51. The school took in \$59 on the second day by selling 7 adult tickets and 3 child tickets. Find the price of an adult ticket and the price of a child ticket.
- 8) Julio's school is selling tickets to a fall musical. On the first day of ticket sales the school sold 7 senior citizen tickets and 6 child tickets for a total of \$113. The school took in \$80 on the second day by selling 4 senior citizen tickets and 6 child tickets. What is the price each of one senior citizen ticket and one child ticket?



- 9) The school that Maria goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 7 senior citizen tickets and 2 student tickets for a total of \$27. The school took in \$33 on the second day by selling 7 senior citizen tickets and 4 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 10) The school that Jasmine goes to is selling tickets to a play. On the first day of ticket sales the school sold 1 adult ticket and 2 child tickets for a total of \$38. The school took in \$108 on the second day by selling 6 adult tickets and 2 child tickets. What is the price each of one adult ticket and one child ticket?
- 11) Eugene's school is selling tickets to a choral performance. On the first day of ticket sales the school sold 5 senior citizen tickets and 6 student tickets for a total of \$129. The school took in \$138 on the second day by selling 6 senior citizen tickets and 6 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 12) Traveling downstream a certain boat went 11 km/h. Traveling upstream it only went 1 km/h. Find the speed of the boat in still water and the speed of the current.
- 13) Chelsea's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 4 adult tickets and 5 student tickets for a total of \$53. The school took in \$67 on the second day by selling 6 adult tickets and 5 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 14) Danielle and Arjun each improved their yards by planting grass sod and ivy. They bought their supplies from the same store. Danielle spent \$48 on 4 ft<sup>2</sup> of grass sod and 8 pots of ivy. Arjun spent \$54 on 5 ft<sup>2</sup> of grass sod and 8 pots of ivy. What is the cost of one ft<sup>2</sup> of grass sod and the cost of one pot of ivy?
- 15) Ryan and Stefan each improved their yards by planting rose bushes and ivy. They bought their supplies from the same store. Ryan spent \$60 on 6 rose bushes and 6 pots of ivy. Stefan spent \$52 on 4 rose bushes and 6 pots of ivy. What is the cost of one rose bush and the cost of one pot of ivy?
- 16) Carlos and Aliyah are selling pies for a school fundraiser. Customers can buy cherry pies and lemon meringue pies. Carlos sold 5 cherry pies and 8 lemon meringue pies for a total of \$201. Aliyah sold 1 cherry pie and 8 lemon meringue pies for a total of \$149. What is the cost each of one cherry pie and one lemon meringue pie?
- 17) Flying with the wind a plane went 376 km/h. Flying into the same wind the plane only went 350 km/h. What is the speed of the wind? How fast would the plane go if there were no wind?
- 18) Flying to New York City with a tailwind a plane averaged 288 mph. On the return trip the plane only averaged 242 mph while flying back into the same wind. Find the speed of the wind and the speed of the plane in still air.



- 19) The sum of two numbers is 13. Their difference is 3. What are the numbers?
- 20) Traveling downstream a certain boat went 12 mph. Traveling upstream it only went 4 mph. What is the speed of the current? How fast would the boat go if there were no current?
- 21) Traveling with the current a certain boat went 10 km/h. Against the same current it only went 2 km/h. What is the speed of the current? How fast would the boat go if there were no current?
- 22) Flying to Los Angeles with a tailwind a plane averaged 230 mph. On the return trip the plane only averaged 174 mph while flying back into the same wind. What is the speed of the wind? How fast would the plane go if there were no wind?
- 23) Matt's school is selling tickets to a fall musical. On the first day of ticket sales the school sold 4 adult tickets and 2 student tickets for a total of \$86. The school took in \$44 on the second day by selling 1 adult ticket and 2 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 24) Pranav and Alberto each improved their yards by planting grass sod and ivy. They bought their supplies from the same store. Pranav spent \$85 on 8 ft<sup>2</sup> of grass sod and 1 pot of ivy. Alberto spent \$95 on 8 ft<sup>2</sup> of grass sod and 3 pots of ivy. Find the cost of one ft<sup>2</sup> of grass sod and the cost of one pot of ivy.



## Answers to Assignment (ID: 7)

- 1) ft<sup>2</sup> of grass sod: \$7, bunch of ornamental grass: \$10
- 2) ft<sup>2</sup> of grass sod: \$6, bunch of ornamental grass: \$11
- 3) hosta: \$7, pot of ivy: \$5
- 4) ft<sup>2</sup> of grass sod: \$10, shrub: \$5
- 5) hosta: \$8, pot of ivy: \$11
- 6) adult ticket: \$13, student ticket: \$10
- 7) adult ticket: \$5, child ticket: \$8
- 8) senior citizen ticket: \$11, child ticket: \$6
- 9) senior citizen ticket: \$3, student ticket: \$3
- 10) adult ticket: \$14, child ticket: \$12
- 11) senior citizen ticket: \$9, student ticket: \$14
- 12) Boat: 6 km/h, Current: 5 km/h
- 13) adult ticket: \$7, student ticket: \$5
- 14) ft<sup>2</sup> of grass sod: \$6, pot of ivy: \$3
- 15) rose bush: \$4, pot of ivy: \$6
- 16) cherry pie: \$13, lemon meringue pie: \$17
- 17) Plane: 363 km/h, Wind: 13 km/h
- 18) Plane: 265 mph, Wind: 23 mph
- 19) 5 and 8
- 20) Boat: 8 mph, Current: 4 mph
- 21) Boat: 6 km/h, Current: 4 km/h
- 22) Plane: 202 mph, Wind: 28 mph
- 23) adult ticket: \$14, student ticket: \$15
- 24) ft<sup>2</sup> of grass sod: \$10, pot of ivy: \$5



## Assignment

- 1) The difference of two numbers is 1. Their sum is 9. What are the numbers?
  
- 2) Paul and Jasmine are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and bags of daffodil bulbs. Paul sold 5 bags of windflower bulbs and 4 bags of daffodil bulbs for a total of \$162. Jasmine sold 5 bags of windflower bulbs and 6 bags of daffodil bulbs for a total of \$198. Find the cost each of one bag of windflower bulbs and one bag of daffodil bulbs.
  
- 3) Lisa and Amanda are selling cheesecakes for a school fundraiser. Customers can buy French silk cheesecakes and chocolate marble cheesecakes. Lisa sold 4 French silk cheesecakes and 2 chocolate marble cheesecakes for a total of \$86. Amanda sold 4 French silk cheesecakes and 1 chocolate marble cheesecake for a total of \$67. What is the cost each of one French silk cheesecake and one chocolate marble cheesecake?
  
- 4) Mary and Kayla each improved their yards by planting rose bushes and ornamental grass. They bought their supplies from the same store. Mary spent \$96 on 8 rose bushes and 6 bunches of ornamental grass. Kayla spent \$78 on 5 rose bushes and 6 bunches of ornamental grass. Find the cost of one rose bush and the cost of one bunch of ornamental grass.
  
- 5) Find the value of two numbers if their sum is 14 and their difference is 2.
  
- 6) The difference of two numbers is 3. Their sum is 11. What are the numbers?
  
- 7) Traveling with the current a certain boat went 14 km/h. Against the same current it only went 2 km/h. What is the speed of the current? How fast would the boat go if there were no current?
  
- 8) Flying with the wind a plane went 420 km/h. Flying into the same wind the plane only went 374 km/h. What is the speed of the wind? How fast would the plane go if there were no wind?
  
- 9) Flying to Ankara with a tailwind a plane averaged 185 km/h. On the return trip the plane only averaged 117 km/h while flying back into the same wind. Find the speed of the wind and the speed of the plane in still air.
  
- 10) Flying with the wind a plane went 237 mph. Flying into the same wind the plane only went 215 mph. Find the speed of the plane in still air and the speed of the wind.
  
- 11) Going down the river a boat went 11 mph. Going up the river it only went 3 mph. What is the speed of the current? How fast would the boat go if there were no current?



- 12) Flying to London with a tailwind a plane averaged 381 mph. On the return trip the plane only averaged 317 mph while flying back into the same wind. Find the speed of the plane in still air and the speed of the wind.
- 13) Dan and Shayna are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and packages of crocus bulbs. Dan sold 2 bags of windflower bulbs and 5 packages of crocus bulbs for a total of \$116. Shayna sold 2 bags of windflower bulbs and 8 packages of crocus bulbs for a total of \$170. Find the cost each of one bag of windflower bulbs and one package of crocus bulbs.
- 14) Eduardo and Krystal 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 1 roll of holiday wrapping paper for a total of \$66. Krystal sold 3 rolls of plain wrapping paper and 1 roll of holiday wrapping paper for a total of \$53. Find the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper.
- 15) Elisa and Lisa are selling cookie dough for a school fundraiser. Customers can buy packages of chocolate chip cookie dough and packages of oatmeal cookie dough. Elisa sold 8 packages of chocolate chip cookie dough and 4 packages of oatmeal cookie dough for a total of \$104. Lisa sold 8 packages of chocolate chip cookie dough and 7 packages of oatmeal cookie dough for a total of \$140. What is the cost each of one package of chocolate chip cookie dough and one package of oatmeal cookie dough?
- 16) Trevon and John are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and packages of crocus bulbs. Trevon sold 4 packages of tulip bulbs and 5 packages of crocus bulbs for a total of \$77. John sold 4 packages of tulip bulbs and 4 packages of crocus bulbs for a total of \$68. What is the cost each of one package of tulips bulbs and one package of crocus bulbs?
- 17) Imani and Mary are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. Imani sold 5 rolls of plain wrapping paper and 4 rolls of shiny wrapping paper for a total of \$97. Mary sold 5 rolls of plain wrapping paper and 8 rolls of shiny wrapping paper for a total of \$149. What is the cost each of one roll of plain wrapping paper and one roll of shiny wrapping paper?
- 18) Molly and Heather are selling cookie dough for a school fundraiser. Customers can buy packages of chocolate chip cookie dough and packages of double chocolate cookie dough. Molly sold 7 packages of chocolate chip cookie dough and 1 package of double chocolate cookie dough for a total of \$96. Heather sold 7 packages of chocolate chip cookie dough and 3 packages of double chocolate cookie dough for a total of \$134. What is the cost each of one package of chocolate chip cookie dough and one package of double chocolate cookie dough?
- 19) Stefan and Mike each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Stefan spent \$71 on 1 ft<sup>2</sup> of grass sod and 5 bunches of ornamental grass. Mike spent \$93 on 3 ft<sup>2</sup> of grass sod and 5 bunches of ornamental grass. Find the cost of one ft<sup>2</sup> of grass sod and the cost of one bunch of ornamental grass.



- 20) Anjali and Totsakan each improved their yards by planting grass sod and shrubs. They bought their supplies from the same store. Anjali spent \$93 on 7 ft<sup>2</sup> of grass sod and 1 shrub. Totsakan spent \$111 on 7 ft<sup>2</sup> of grass sod and 3 shrubs. Find the cost of one ft<sup>2</sup> of grass sod and the cost of one shrub.
- 21) Jaidee and Sarawong each improved their yards by planting hostas and shrubs. They bought their supplies from the same store. Jaidee spent \$89 on 4 hostas and 7 shrubs. Sarawong spent \$61 on 4 hostas and 3 shrubs. What is the cost of one hosta and the cost of one shrub?
- 22) Sarawong and Abhasra each improved their yards by planting daylilies and ivy. They bought their supplies from the same store. Sarawong spent \$94 on 8 daylilies and 3 pots of ivy. Abhasra spent \$38 on 1 daylily and 3 pots of ivy. Find the cost of one daylily and the cost of one pot of ivy.
- 23) Heather and Pranav each improved their yards by planting rose bushes and ivy. They bought their supplies from the same store. Heather spent \$102 on 4 rose bushes and 6 pots of ivy. Pranav spent \$66 on 4 rose bushes and 2 pots of ivy. What is the cost of one rose bush and the cost of one pot of ivy?
- 24) Wilbur and Shreya each improved their yards by planting hostas and ornamental grass. They bought their supplies from the same store. Wilbur spent \$21 on 6 hostas and 1 bunch of ornamental grass. Shreya spent \$24 on 6 hostas and 2 bunches of ornamental grass. What is the cost of one hosta and the cost of one bunch of ornamental grass?



## Answers to Assignment (ID: 8)

- 1) 4 and 5
- 2) bag of windflower bulbs: \$18, bag of daffodil bulbs: \$18
- 3) French silk cheesecake: \$12, chocolate marble cheesecake: \$19
- 4) rose bush: \$6, bunch of ornamental grass: \$8      5) 6 and 8      6) 4 and 7
- 7) Boat: 8 km/h, Current: 6 km/h      8) Plane: 397 km/h, Wind: 23 km/h
- 9) Plane: 151 km/h, Wind: 34 km/h      10) Plane: 226 mph, Wind: 11 mph
- 11) Boat: 7 mph, Current: 4 mph      12) Plane: 349 mph, Wind: 32 mph
- 13) bag of windflower bulbs: \$13, package of crocus bulbs: \$18
- 14) roll of plain wrapping paper: \$13, roll of holiday wrapping paper: \$14
- 15) package of chocolate chip cookie dough: \$7, package of oatmeal cookie dough: \$12
- 16) package of tulips bulbs: \$8, package of crocus bulbs: \$9
- 17) roll of plain wrapping paper: \$9, roll of shiny wrapping paper: \$13
- 18) package of chocolate chip cookie dough: \$11, package of double chocolate cookie dough: \$19
- 19) ft<sup>2</sup> of grass sod: \$11, bunch of ornamental grass: \$12
- 20) ft<sup>2</sup> of grass sod: \$12, shrub: \$9      21) hosta: \$10, shrub: \$7
- 22) daylily: \$8, pot of ivy: \$10      23) rose bush: \$12, pot of ivy: \$9
- 24) hosta: \$3, bunch of ornamental grass: \$3





## Assignment

- 1) John's school 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 \$122. The school took in \$116 on the second day by selling 4 senior citizen tickets and 8 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 2) The school that Amy goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 4 adult tickets and 6 student tickets for a total of \$78. The school took in \$87 on the second day by selling 4 adult tickets and 7 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 3) The school that Asanji goes to is selling tickets to a play. On the first day of ticket sales the school sold 3 adult tickets and 2 child tickets for a total of \$45. The school took in \$51 on the second day by selling 3 adult tickets and 3 child tickets. What is the price each of one adult ticket and one child ticket?
- 4) Rob's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 4 senior citizen tickets and 2 child tickets for a total of \$74. The school took in \$85 on the second day by selling 4 senior citizen tickets and 3 child tickets. What is the price each of one senior citizen ticket and one child ticket?
- 5) Brenda's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 3 senior citizen tickets and 7 child tickets for a total of \$40. The school took in \$36 on the second day by selling 3 senior citizen tickets and 6 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 6) The school that Adam goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 3 adult tickets and 3 student tickets for a total of \$72. The school took in \$54 on the second day by selling 1 adult ticket and 3 student tickets. What is the price each of one adult ticket and one student ticket?
- 7) The school that Mark goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 1 adult ticket and 5 student tickets for a total of \$68. The school took in \$57 on the second day by selling 1 adult ticket and 4 student tickets. What is the price each of one adult ticket and one student ticket?
- 8) Mei's school is selling tickets to a play. On the first day of ticket sales the school sold 7 senior citizen tickets and 2 student tickets for a total of \$45. The school took in \$40 on the second day by selling 6 senior citizen tickets and 2 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 9) Jose and Alberto each improved their yards by planting daylilies and ivy. They bought their supplies from the same store. Jose spent \$44 on 3 daylilies and 1 pot of ivy. Alberto spent \$88 on 7 daylilies and 1 pot of ivy. Find the cost of one daylily and the cost of one pot of ivy.



- 10) Julia and Danielle are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Julia sold 7 rolls of plain wrapping paper and 2 rolls of holiday wrapping paper for a total of \$94. Danielle sold 7 rolls of plain wrapping paper and 3 rolls of holiday wrapping paper for a total of \$113. What is the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper?
- 11) Going down the river a boat went 13 mph. Going up the river it only went 1 mph. Find the speed of the boat in still water and the speed of the current.
- 12) Find the value of two numbers if their sum is 14 and their difference is 2.
- 13) Find the value of two numbers if their sum is 11 and their difference is 3.
- 14) Jacob and Stephanie 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. Jacob sold 6 packages of white chocolate chip cookie dough and 6 packages of double chocolate cookie dough for a total of \$150. Stephanie sold 8 packages of white chocolate chip cookie dough and 6 packages of double chocolate cookie dough for a total of \$168. Find the cost each of one package of white chocolate chip cookie dough and one package of double chocolate cookie dough.
- 15) Scott'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 6 student tickets for a total of \$126. The school took in \$96 on the second day by selling 6 senior citizen tickets and 3 student tickets. What is the price each of one senior citizen ticket and one student ticket?
- 16) Alberto and Lea are selling pies for a school fundraiser. Customers can buy apple pies and lemon meringue pies. Alberto sold 7 apple pies and 2 lemon meringue pies for a total of \$83. Lea sold 8 apple pies and 2 lemon meringue pies for a total of \$90. What is the cost each of one apple pie and one lemon meringue pie?
- 17) The school that Castel goes to is selling tickets to a play. On the first day of ticket sales the school sold 6 senior citizen tickets and 6 student tickets for a total of \$108. The school took in \$98 on the second day by selling 6 senior citizen tickets and 4 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 18) DeShawn and Maria are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and bags of daffodil bulbs. DeShawn sold 2 packages of tulip bulbs and 1 bag of daffodil bulbs for a total of \$49. Maria sold 2 packages of tulip bulbs and 5 bags of daffodil bulbs for a total of \$117. What is the cost each of one package of tulips bulbs and one bag of daffodil bulbs?
- 19) Ming and Ted each improved their yards by planting hostas and geraniums. They bought their supplies from the same store. Ming spent \$68 on 1 hosta and 5 geraniums. Ted spent \$100 on 5 hostas and 5 geraniums. What is the cost of one hosta and the cost of one geranium?



- 20) The school that Aliyah goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 8 senior citizen tickets and 2 student tickets for a total of \$126. The school took in \$102 on the second day by selling 6 senior citizen tickets and 2 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 21) Darryl's school is selling tickets to the annual talent show. On the first day of ticket sales the school sold 6 senior citizen tickets and 6 student tickets for a total of \$132. The school took in \$140 on the second day by selling 6 senior citizen tickets and 7 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 22) Shreya and Jack are selling fruit for a school fundraiser. Customers can buy small boxes of grapefruit and large boxes of grapefruit. Shreya sold 4 small boxes of grapefruit and 1 large box of grapefruit for a total of \$36. Jack sold 3 small boxes of grapefruit and 1 large box of grapefruit for a total of \$31. Find the cost each of one small box of grapefruit and one large box of grapefruit.
- 23) Find the value of two numbers if their sum is 12 and their difference is 2.
- 24) Abhasra and Adam are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Abhasra sold 4 rolls of plain wrapping paper and 7 rolls of holiday wrapping paper for a total of \$169. Adam sold 4 rolls of plain wrapping paper and 5 rolls of holiday wrapping paper for a total of \$131. Find the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper.



## Answers to Assignment (ID: 9)

- 1) senior citizen ticket: \$3, student ticket: \$13
- 2) adult ticket: \$6, student ticket: \$9
- 3) adult ticket: \$11, child ticket: \$6
- 4) senior citizen ticket: \$13, child ticket: \$11
- 5) senior citizen ticket: \$4, child ticket: \$4
- 6) adult ticket: \$9, student ticket: \$15
- 7) adult ticket: \$13, student ticket: \$11
- 8) senior citizen ticket: \$5, student ticket: \$5
- 9) daylily: \$11, pot of ivy: \$11
- 10) roll of plain wrapping paper: \$8, roll of holiday wrapping paper: \$19
- 11) Boat: 7 mph, Current: 6 mph
- 12) 6 and 8
- 13) 4 and 7
- 14) package of white chocolate chip cookie dough: \$9, package of double chocolate cookie dough: \$16
- 15) senior citizen ticket: \$11, student ticket: \$10
- 16) apple pie: \$7, lemon meringue pie: \$17
- 17) senior citizen ticket: \$13, student ticket: \$5
- 18) package of tulips bulbs: \$16, bag of daffodil bulbs: \$17
- 19) hosta: \$8, geranium: \$12
- 20) senior citizen ticket: \$12, student ticket: \$15
- 21) senior citizen ticket: \$14, student ticket: \$8
- 22) small box of grapefruit: \$5, large box of grapefruit: \$16
- 23) 5 and 7
- 24) roll of plain wrapping paper: \$9, roll of holiday wrapping paper: \$19



## Assignment

- 1) The sum of two numbers is 10. Their difference is 2. Find the numbers.
- 2) The sum of two numbers is 9. Their difference is 1. What are the numbers?
- 3) The difference of two numbers is 3. Their sum is 13. What are the numbers?
- 4) Find the value of two numbers if their sum is 14 and their difference is 2.
- 5) Flying with the wind a plane went 161 km/h. Flying into the same wind the plane only went 135 km/h. What is the speed of the wind? How fast would the plane go if there were no wind?
- 6) Flying to Baltimore with a tailwind a plane averaged 245 mph. On the return trip the plane only averaged 199 mph while flying back into the same wind. Find the speed of the wind and the speed of the plane in still air.
- 7) Going down the river a boat went 11 mph. Going up the river it only went 3 mph. What is the speed of the current? How fast would the boat go if there were no current?
- 8) Flying with the wind a plane went 383 mph. Flying into the same wind the plane only went 361 mph. Find the speed of the plane in still air and the speed of the wind.
- 9) Flying with the wind a plane went 149 mph. Flying into the same wind the plane only went 103 mph. What is the speed of the wind? How fast would the plane go if there were no wind?
- 10) Maria and Sumalee are selling cookie dough for a school fundraiser. Customers can buy packages of sugar cookie dough and packages of oatmeal cookie dough. Maria sold 4 packages of sugar cookie dough and 3 packages of oatmeal cookie dough for a total of \$38. Sumalee sold 8 packages of sugar cookie dough and 3 packages of oatmeal cookie dough for a total of \$58. What is the cost each of one package of sugar cookie dough and one package of oatmeal cookie dough?
- 11) Eugene and Anjali are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and chocolate marble cheesecakes. Eugene sold 8 pecan cheesecakes and 2 chocolate marble cheesecakes for a total of \$110. Anjali sold 8 pecan cheesecakes and 7 chocolate marble cheesecakes for a total of \$165. Find the cost each of one pecan cheesecake and one chocolate marble cheesecake.



- 12) Jasmine and Kali are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and packages of crocus bulbs. Jasmine sold 4 bags of windflower bulbs and 8 packages of crocus bulbs for a total of \$124. Kali sold 5 bags of windflower bulbs and 8 packages of crocus bulbs for a total of \$129. Find the cost each of one bag of windflower bulbs and one package of crocus bulbs.
- 13) Ashley and Arjun are selling cookie dough for a school fundraiser. Customers can buy packages of chocolate chip cookie dough and packages of double chocolate cookie dough. Ashley sold 5 packages of chocolate chip cookie dough and 7 packages of double chocolate cookie dough for a total of \$100. Arjun sold 5 packages of chocolate chip cookie dough and 4 packages of double chocolate cookie dough for a total of \$70. What is the cost each of one package of chocolate chip cookie dough and one package of double chocolate cookie dough?
- 14) Chelsea and Molly are selling cheesecakes for a school fundraiser. Customers can buy New York style cheesecakes and chocolate marble cheesecakes. Chelsea sold 3 New York style cheesecakes and 4 chocolate marble cheesecakes for a total of \$46. Molly sold 8 New York style cheesecakes and 4 chocolate marble cheesecakes for a total of \$76. Find the cost each of one New York style cheesecake and one chocolate marble cheesecake.
- 15) Danielle and Aliyah are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and packages of crocus bulbs. Danielle sold 4 bags of windflower bulbs and 4 packages of crocus bulbs for a total of \$84. Aliyah sold 8 bags of windflower bulbs and 4 packages of crocus bulbs for a total of \$120. What is the cost each of one bag of windflower bulbs and one package of crocus bulbs?
- 16) Ryan and Imani each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Ryan spent \$56 on 6 hostas and 2 pots of ivy. Imani spent \$40 on 4 hostas and 2 pots of ivy. What is the cost of one hosta and the cost of one pot of ivy?
- 17) Carlos and DeShawn each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Carlos spent \$112 on 8 hostas and 4 pots of ivy. DeShawn spent \$122 on 8 hostas and 5 pots of ivy. What is the cost of one hosta and the cost of one pot of ivy?
- 18) Micaela and Cody each improved their yards by planting rose bushes and shrubs. They bought their supplies from the same store. Micaela spent \$107 on 8 rose bushes and 5 shrubs. Cody spent \$71 on 4 rose bushes and 5 shrubs. Find the cost of one rose bush and the cost of one shrub.
- 19) Willie and Elisa each improved their yards by planting hostas and geraniums. They bought their supplies from the same store. Willie spent \$102 on 8 hostas and 2 geraniums. Elisa spent \$135 on 8 hostas and 5 geraniums. Find the cost of one hosta and the cost of one geranium.
- 20) Shanice and Eduardo each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Shanice spent \$107 on 7 hostas and 5 pots of ivy. Eduardo spent \$74 on 4 hostas and 5 pots of ivy. What is the cost of one hosta and the cost of one pot of ivy?



- 21) Kathryn's school is selling tickets to a fall musical. On the first day of ticket sales the school sold 2 senior citizen tickets and 8 child tickets for a total of \$60. The school took in \$36 on the second day by selling 2 senior citizen tickets and 4 child tickets. What is the price each of one senior citizen ticket and one child ticket?
- 22) The school that Kali goes to is selling tickets to a spring musical. On the first day of ticket sales the school sold 1 adult ticket and 8 child tickets for a total of \$35. The school took in \$23 on the second day by selling 1 adult ticket and 4 child tickets. Find the price of an adult ticket and the price of a child ticket.
- 23) Pranav's school is selling tickets to a choral performance. On the first day of ticket sales the school sold 6 senior citizen tickets and 4 student tickets for a total of \$80. The school took in \$72 on the second day by selling 4 senior citizen tickets and 4 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 24) The school that Sumalee goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 1 senior citizen ticket and 8 student tickets for a total of \$105. The school took in \$57 on the second day by selling 1 senior citizen ticket and 4 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.



## Answers to Assignment (ID: 10)

- 1) 4 and 6
- 2) 4 and 5
- 3) 5 and 8
- 4) 6 and 8
- 5) Plane: 148 km/h, Wind: 13 km/h
- 6) Plane: 222 mph, Wind: 23 mph
- 7) Boat: 7 mph, Current: 4 mph
- 8) Plane: 372 mph, Wind: 11 mph
- 9) Plane: 126 mph, Wind: 23 mph
- 10) package of sugar cookie dough: \$5, package of oatmeal cookie dough: \$6
- 11) pecan cheesecake: \$11, chocolate marble cheesecake: \$11
- 12) bag of windflower bulbs: \$5, package of crocus bulbs: \$13
- 13) package of chocolate chip cookie dough: \$6, package of double chocolate cookie dough: \$10
- 14) New York style cheesecake: \$6, chocolate marble cheesecake: \$7
- 15) bag of windflower bulbs: \$9, package of crocus bulbs: \$12
- 16) hosta: \$8, pot of ivy: \$4
- 17) hosta: \$9, pot of ivy: \$10
- 18) rose bush: \$9, shrub: \$7
- 19) hosta: \$10, geranium: \$11
- 20) hosta: \$11, pot of ivy: \$6
- 21) senior citizen ticket: \$6, child ticket: \$6
- 22) adult ticket: \$11, child ticket: \$3
- 23) senior citizen ticket: \$4, student ticket: \$14
- 24) senior citizen ticket: \$9, student ticket: \$12

