

## Assignment

- 1) 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 6 vans and 10 buses with 636 students. High School B rented and filled 5 vans and 6 buses with 397 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 1596 miles to Shanghai and back. The trip there was with the wind. It took 14 hours. The trip back was into the wind. The trip back took 19 hours. What is the speed of the plane in still air? What is the speed of the wind?
- 3) A plane traveled 1560 miles to Ankara and back. The trip there was with the wind. It took 10 hours. The trip back was into the wind. The trip back took 13 hours. Find the speed of the plane in still air and the speed of the wind.
- 4) A plane traveled 1155 miles to Baltimore and back. The trip there was with the wind. It took 11 hours. The trip back was into the wind. The trip back took 15 hours. Find the speed of the plane in still air and the speed of the wind.
- 5) A plane traveled 1064 miles to Albuquerque and back. The trip there was with the wind. It took 14 hours. The trip back was into the wind. The trip back took 19 hours. What is the speed of the plane in still air? What is the speed of the wind?
- 6) A boat traveled 448 miles downstream and back. The trip downstream took 16 hours. The trip back took 28 hours. What is the speed of the boat in still water? What is the speed of the current?
- 7) A boat traveled 144 miles downstream and back. The trip downstream took 9 hours. The trip back took 12 hours. What is the speed of the boat in still water? What is the speed of the current?
- 8) 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 6 buses with 282 students. High School B rented and filled 7 vans and 10 buses with 354 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?
- 9) The school that Joe goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 15 senior citizen tickets and 10 child tickets for a total of \$240. The school took in \$156 on the second day by selling 11 senior citizen tickets and 6 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.



- 10) Jessica and Matt each improved their yards by planting daylilies and shrubs. They bought their supplies from the same store. Jessica spent \$44 on 12 daylilies and 4 shrubs. Matt spent \$25 on 5 daylilies and 5 shrubs. What is the cost of one daylily and the cost of one shrub?
- 11) Emily and Mike each improved their yards by planting rose bushes and geraniums. They bought their supplies from the same store. Emily spent \$74 on 6 rose bushes and 7 geraniums. Mike spent \$113 on 11 rose bushes and 10 geraniums. Find the cost of one rose bush and the cost of one geranium.
- 12) Gabriella and Sarawong are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and strawberry cheesecakes. Gabriella sold 8 pecan cheesecakes and 6 strawberry cheesecakes for a total of \$92. Sarawong sold 14 pecan cheesecakes and 11 strawberry cheesecakes for a total of \$166. Find the cost each of one pecan cheesecake and one strawberry cheesecake.
- 13) 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 5 vans and 15 buses with 785 students. High School B rented and filled 14 vans and 8 buses with 600 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 14) A boat traveled 480 miles downstream and back. The trip downstream took 16 hours. The trip back took 30 hours. What is the speed of the boat in still water? What is the speed of the current?
- 15) Dan and Shreya are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and packages of crocus bulbs. Dan sold 7 packages of tulip bulbs and 3 packages of crocus bulbs for a total of \$96. Shreya sold 2 packages of tulip bulbs and 11 packages of crocus bulbs for a total of \$139. Find the cost each of one package of tulips bulbs and one package of crocus bulbs.
- 16) The school that Eduardo goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 4 adult tickets and 4 student tickets for a total of \$76. The school took in \$217 on the second day by selling 7 adult tickets and 14 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 17) Elisa and Stefan each improved their yards by planting daylilies and ivy. They bought their supplies from the same store. Elisa spent \$96 on 14 daylilies and 3 pots of ivy. Stefan spent \$104 on 16 daylilies and 2 pots of ivy. Find the cost of one daylily and the cost of one pot of ivy.
- 18) A boat traveled 285 miles downstream and back. The trip downstream took 15 hours. The trip back took 57 hours. What is the speed of the boat in still water? What is the speed of the current?
- 19) 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 16 vans and 13 buses with 452 students. High School B rented and filled 12 vans and 10 buses with 344 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.



- 20) 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 8 vans and 12 buses with 788 students. High School B rented and filled 6 vans and 8 buses with 534 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?
- 21) The school that Stefan goes to is selling tickets to a play. On the first day of ticket sales the school sold 5 adult tickets and 12 student tickets for a total of \$209. The school took in \$158 on the second day by selling 2 adult tickets and 11 student tickets. What is the price each of one adult ticket and one student ticket?
- 22) Anjali and Micaela each improved their yards by planting daylilies and ivy. They bought their supplies from the same store. Anjali spent \$106 on 8 daylilies and 14 pots of ivy. Micaela spent \$124 on 11 daylilies and 12 pots of ivy. What is the cost of one daylily and the cost of one pot of ivy?
- 23) Jaidee and Castel are selling cheesecakes for a school fundraiser. Customers can buy New York style cheesecakes and chocolate marble cheesecakes. Jaidee sold 11 New York style cheesecakes and 8 chocolate marble cheesecakes for a total of \$179. Castel sold 8 New York style cheesecakes and 14 chocolate marble cheesecakes for a total of \$212. Find the cost each of one New York style cheesecake and one chocolate marble cheesecake.
- 24) Sarawong and Carlos are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and packages of crocus bulbs. Sarawong sold 15 packages of tulip bulbs and 9 packages of crocus bulbs for a total of \$201. Carlos sold 14 packages of tulip bulbs and 4 packages of crocus bulbs for a total of \$126. What is the cost each of one package of tulips bulbs and one package of crocus bulbs?



## Answers to Assignment (ID: 1)

- 1) Van: 11, Bus: 57
- 2) plane: 99 mph, wind: 15 mph
- 3) plane: 138 mph, wind: 18 mph
- 4) plane: 91 mph, wind: 14 mph
- 5) plane: 66 mph, wind: 10 mph
- 6) boat: 22 mph, current: 6 mph
- 7) boat: 14 mph, current: 2 mph
- 8) Van: 12, Bus: 27
- 9) senior citizen ticket: \$6, child ticket: \$15
- 10) daylily: \$3, shrub: \$2
- 11) rose bush: \$3, geranium: \$8
- 12) pecan cheesecake: \$4, strawberry cheesecake: \$10
- 13) Van: 16, Bus: 47
- 14) boat: 23 mph, current: 7 mph
- 15) package of tulips bulbs: \$9, package of crocus bulbs: \$11
- 16) adult ticket: \$7, student ticket: \$12
- 17) daylily: \$6, pot of ivy: \$4
- 18) boat: 12 mph, current: 7 mph
- 19) Van: 12, Bus: 20
- 20) Van: 13, Bus: 57
- 21) adult ticket: \$13, student ticket: \$12
- 22) daylily: \$8, pot of ivy: \$3
- 23) New York style cheesecake: \$9, chocolate marble cheesecake: \$10
- 24) package of tulips bulbs: \$5, package of crocus bulbs: \$14



## Assignment

- 1) John and Daniel are selling pies for a school fundraiser. Customers can buy blueberry pies and blackberry pies. John sold 13 blueberry pies and 10 blackberry pies for a total of \$152. Daniel sold 6 blueberry pies and 9 blackberry pies for a total of \$114. What is the cost each of one blueberry pie and one blackberry pie?
- 2) Wilbur and Danielle are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Wilbur sold 3 rolls of plain wrapping paper and 9 rolls of holiday wrapping paper for a total of \$156. Danielle sold 16 rolls of plain wrapping paper and 14 rolls of holiday wrapping paper for a total of \$288. Find the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper.
- 3) Mike and Dan each improved their yards by planting hostas and ornamental grass. They bought their supplies from the same store. Mike spent \$48 on 8 hostas and 6 bunches of ornamental grass. Dan spent \$41 on 7 hostas and 5 bunches of ornamental grass. What is the cost of one hosta and the cost of one bunch of ornamental grass?
- 4) Rob and Kayla are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Rob sold 12 small boxes of oranges and 3 large boxes of oranges for a total of \$234. Kayla sold 10 small boxes of oranges and 5 large boxes of oranges for a total of \$240. What is the cost each of one small box of oranges and one large box of oranges?
- 5) Amy and Amanda are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Amy sold 4 rolls of plain wrapping paper and 14 rolls of holiday wrapping paper for a total of \$288. Amanda sold 10 rolls of plain wrapping paper and 9 rolls of holiday wrapping paper for a total of \$304. What is the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper?
- 6) Asanji and Gabriella are selling cheesecakes for a school fundraiser. Customers can buy New York style cheesecakes and apple cheesecakes. Asanji sold 11 New York style cheesecakes and 16 apple cheesecakes for a total of \$258. Gabriella sold 13 New York style cheesecakes and 10 apple cheesecakes for a total of \$198. What is the cost each of one New York style cheesecake and one apple cheesecake?
- 7) Adam and Eugene each improved their yards by planting grass sod and geraniums. They bought their supplies from the same store. Adam spent \$46 on 10 ft<sup>2</sup> of grass sod and 2 geraniums. Eugene spent \$79 on 13 ft<sup>2</sup> of grass sod and 9 geraniums. Find the cost of one ft<sup>2</sup> of grass sod and the cost of one geranium.
- 8) Brenda and Jacob are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Brenda sold 12 small boxes of oranges and 5 large boxes of oranges for a total of \$299. Jacob sold 11 small boxes of oranges and 7 large boxes of oranges for a total of \$320. Find the cost each of one small box of oranges and one large box of oranges.
- 9) Mark and Jessica each improved their yards by planting hostas and ornamental grass. They bought their supplies from the same store. Mark spent \$52 on 4 hostas and 10 bunches of ornamental grass. Jessica spent \$51 on 9 hostas and 6 bunches of ornamental grass. What is the cost of one hosta and the cost of



- 10) Mei and Joe each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Mei spent \$179 on 15 hostas and 11 pots of ivy. Joe spent \$109 on 9 hostas and 7 pots of ivy. What is the cost of one hosta and the cost of one pot of ivy?
- 11) Jose and Julio each improved their yards by planting daylilies and ivy. They bought their supplies from the same store. Jose spent \$230 on 13 daylilies and 10 pots of ivy. Julio spent \$120 on 3 daylilies and 9 pots of ivy. Find the cost of one daylily and the cost of one pot of ivy.
- 12) Julia and Mei each improved their yards by planting daylilies and shrubs. They bought their supplies from the same store. Julia spent \$154 on 11 daylilies and 7 shrubs. Mei spent \$216 on 12 daylilies and 12 shrubs. Find the cost of one daylily and the cost of one shrub.
- 13) The school that Jacob goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 14 adult tickets and 6 student tickets for a total of \$220. The school took in \$242 on the second day by selling 6 adult tickets and 16 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 14) Natalie's school is selling tickets to a choral performance. On the first day of ticket sales the school sold 16 adult tickets and 15 student tickets for a total of \$168. The school took in \$129 on the second day by selling 11 adult tickets and 12 student tickets. What is the price each of one adult ticket and one student ticket?
- 15) Amanda's school is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 3 adult tickets and 9 child tickets for a total of \$96. The school took in \$76 on the second day by selling 2 adult tickets and 8 child tickets. What is the price each of one adult ticket and one child ticket?
- 16) The school that Alberto goes to is selling tickets to a play. On the first day of ticket sales the school sold 6 adult tickets and 6 child tickets for a total of \$66. The school took in \$51 on the second day by selling 4 adult tickets and 5 child tickets. Find the price of an adult ticket and the price of a child ticket.
- 17) 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 6 vans and 11 buses with 429 students. High School B rented and filled 4 vans and 13 buses with 473 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.
- 18) Scott's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 6 adult tickets and 7 student tickets for a total of \$170. The school took in \$344 on the second day by selling 10 adult tickets and 16 student tickets. What is the price each of one adult ticket and one student ticket?
- 19) The school that Nicole goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 14 senior citizen tickets and 16 student tickets for a total of \$148. The school took in \$138 on the second day by selling 13 senior citizen tickets and 15 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.



- 20) 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 443 students. High School B rented and filled 16 vans and 13 buses with 939 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.
- 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 11 vans and 8 buses with 280 students. High School B rented and filled 6 vans and 15 buses with 408 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 22) Yellowstone National Park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 12 vans and 12 buses with 624 students. High School B rented and filled 16 vans and 9 buses with 510 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 23) 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 15 vans and 15 buses with 675 students. High School B rented and filled 9 vans and 14 buses with 545 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 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 16 vans and 9 buses with 691 students. High School B rented and filled 13 vans and 7 buses with 543 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: 2)

- 1) blueberry pie: \$4, blackberry pie: \$10
- 2) roll of plain wrapping paper: \$4, roll of holiday wrapping paper: \$16
- 3) hosta: \$3, bunch of ornamental grass: \$4
- 4) small box of oranges: \$15, large box of oranges: \$18
- 5) roll of plain wrapping paper: \$16, roll of holiday wrapping paper: \$16
- 6) New York style cheesecake: \$6, apple cheesecake: \$12
- 7) ft<sup>2</sup> of grass sod: \$4, geranium: \$3
- 8) small box of oranges: \$17, large box of oranges: \$19
- 9) hosta: \$3, bunch of ornamental grass: \$4
- 10) hosta: \$9, pot of ivy: \$4
- 11) daylily: \$10, pot of ivy: \$10
- 12) daylily: \$7, shrub: \$11
- 13) adult ticket: \$11, student ticket: \$11
- 14) adult ticket: \$3, student ticket: \$8
- 15) adult ticket: \$14, child ticket: \$6
- 16) adult ticket: \$4, child ticket: \$7
- 17) Van: 11, Bus: 33
- 18) adult ticket: \$12, student ticket: \$14
- 19) senior citizen ticket: \$6, student ticket: \$4
- 20) Van: 14, Bus: 55
- 21) Van: 8, Bus: 24
- 22) Van: 6, Bus: 46
- 23) Van: 17, Bus: 28
- 24) Van: 10, Bus: 59



## Assignment

- 1) A boat traveled 120 miles downstream and back. The trip downstream took 6 hours. The trip back took 10 hours. Find the speed of the boat in still water and the speed of the current.
- 2) A plane traveled 1092 miles to Carson City and back. The trip there was with the wind. It took 6 hours. The trip back was into the wind. The trip back took 7 hours. Find the speed of the plane in still air and the speed of the wind.
- 3) A plane traveled 680 miles to Ft. Worth and back. The trip there was with the wind. It took 4 hours. The trip back was into the wind. The trip back took 5 hours. Find the speed of the plane in still air and the speed of the wind.
- 4) A plane traveled 1600 miles to Tahiti and back. The trip there was with the wind. It took 10 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.
- 5) A boat traveled 130 miles downstream and back. The trip downstream took 5 hours. The trip back took 13 hours. What is the speed of the boat in still water? What is the speed of the current?
- 6) A boat traveled 252 miles downstream and back. The trip downstream took 14 hours. The trip back took 63 hours. What is the speed of the boat in still water? What is the speed of the current?
- 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 12 vans and 15 buses with 519 students. High School B rented and filled 7 vans and 2 buses with 107 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?
- 8) The school that Ndiba goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 12 adult tickets and 5 child tickets for a total of \$178. The school took in \$258 on the second day by selling 10 adult tickets and 12 child tickets. What is the price each of one adult ticket and one child ticket?
- 9) Kristin and Aliyah each improved their yards by planting grass sod and ivy. They bought their supplies from the same store. Kristin spent \$170 on 14 ft<sup>2</sup> of grass sod and 11 pots of ivy. Aliyah spent \$110 on 6 ft<sup>2</sup> of grass sod and 14 pots of ivy. Find the cost of one ft<sup>2</sup> of grass sod and the cost of one pot of ivy.
- 10) Perry and Willie are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. Perry sold 10 rolls of plain wrapping paper and 14 rolls of shiny wrapping paper for a total of \$270. Willie sold 14 rolls of plain wrapping paper and 5 rolls of shiny wrapping paper for a total of \$159. What is the cost each of one roll of plain wrapping paper and one roll of shiny wrapping paper?



- 11) Jack and Trevon are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Jack sold 15 small boxes of oranges and 10 large boxes of oranges for a total of \$180. Trevon sold 16 small boxes of oranges and 14 large boxes of oranges for a total of \$232. Find the cost each of one small box of oranges and one large box of oranges.
- 12) A boat traveled 260 miles downstream and back. The trip downstream took 10 hours. The trip back took 13 hours. Find the speed of the boat in still water and the speed of the current.
- 13) Julio and Castel each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Julio spent \$152 on 8 hostas and 12 pots of ivy. Castel spent \$177 on 7 hostas and 16 pots of ivy. Find the cost of one hosta and the cost of one pot of ivy.
- 14) Maria and Eduardo each improved their yards by planting hostas and geraniums. They bought their supplies from the same store. Maria spent \$94 on 5 hostas and 16 geraniums. Eduardo spent \$132 on 12 hostas and 15 geraniums. Find the cost of one hosta and the cost of one geranium.
- 15) The indoor climbing gym 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 15 vans and 8 buses with 609 students. High School B rented and filled 16 vans and 10 buses with 720 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.
- 16) A plane traveled 1144 miles to Athens and back. The trip there was with the wind. It took 13 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?
- 17) A plane traveled 630 miles to Abuja and back. The trip there was with the wind. It took 7 hours. The trip back was into the wind. The trip back took 9 hours. What is the speed of the plane in still air? What is the speed of the wind?
- 18) 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 7 vans and 13 buses with 370 students. High School B rented and filled 9 vans and 11 buses with 350 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.
- 19) The school that Danielle goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 16 adult tickets and 10 student tickets for a total of \$180. The school took in \$175 on the second day by selling 3 adult tickets and 16 student tickets. What is the price each of one adult ticket and one student ticket?
- 20) Carlos and Jasmine each improved their yards by planting grass sod and geraniums. They bought their supplies from the same store. Carlos spent \$193 on 14 ft<sup>2</sup> of grass sod and 13 geraniums. Jasmine spent \$188 on 16 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?



- 21) Micaela and Lea are selling fruit for a school fundraiser. Customers can buy small boxes of grapefruit and large boxes of grapefruit. Micaela sold 12 small boxes of grapefruit and 10 large boxes of grapefruit for a total of \$262. Lea sold 16 small boxes of grapefruit and 14 large boxes of grapefruit for a total of \$362. What is the cost each of one small box of grapefruit and one large box of grapefruit?
- 22) Willie and Jessica are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Willie sold 16 rolls of plain wrapping paper and 9 rolls of holiday wrapping paper for a total of \$247. Jessica sold 7 rolls of plain wrapping paper and 12 rolls of holiday wrapping paper for a total of \$229. Find the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper.
- 23) Ryan's school is selling tickets to a choral performance. On the first day of ticket sales the school sold 6 senior citizen tickets and 8 child tickets for a total of \$106. The school took in \$171 on the second day by selling 13 senior citizen tickets and 12 child tickets. What is the price each of one senior citizen ticket and one child ticket?
- 24) Shanice and Maria are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and bags of daffodil bulbs. Shanice sold 13 bags of windflower bulbs and 9 bags of daffodil bulbs for a total of \$225. Maria sold 14 bags of windflower bulbs and 5 bags of daffodil bulbs for a total of \$186. Find the cost each of one bag of windflower bulbs and one bag of daffodil bulbs.



## Answers to Assignment (ID: 3)

- 1) boat: 16 mph, current: 4 mph      2) plane: 169 mph, wind: 13 mph      3) plane: 153 mph, wind: 17 mph  
4) plane: 130 mph, wind: 30 mph      5) boat: 18 mph, current: 8 mph      6) boat: 11 mph, current: 7 mph  
7) Van: 7, Bus: 29      8) adult ticket: \$9, child ticket: \$14  
9) ft<sup>2</sup> of grass sod: \$9, pot of ivy: \$4  
10) roll of plain wrapping paper: \$6, roll of shiny wrapping paper: \$15  
11) small box of oranges: \$4, large box of oranges: \$12      12) boat: 23 mph, current: 3 mph  
13) hosta: \$7, pot of ivy: \$8      14) hosta: \$6, geranium: \$4      15) Van: 15, Bus: 48  
16) plane: 70 mph, wind: 18 mph      17) plane: 80 mph, wind: 10 mph      18) Van: 12, Bus: 22  
19) adult ticket: \$5, student ticket: \$10      20) ft<sup>2</sup> of grass sod: \$11, geranium: \$3  
21) small box of grapefruit: \$6, large box of grapefruit: \$19  
22) roll of plain wrapping paper: \$7, roll of holiday wrapping paper: \$15  
23) senior citizen ticket: \$3, child ticket: \$11  
24) bag of windflower bulbs: \$9, bag of daffodil bulbs: \$12



## Assignment

- 1) Kathryn and Jenny are selling pies for a school fundraiser. Customers can buy blueberry pies and lemon meringue pies. Kathryn sold 8 blueberry pies and 11 lemon meringue pies for a total of \$172. Jenny sold 11 blueberry pies and 5 lemon meringue pies for a total of \$115. Find the cost each of one blueberry pie and one lemon meringue pie.
- 2) Pranav 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. Pranav sold 7 packages of white chocolate chip cookie dough and 11 packages of oatmeal cookie dough for a total of \$211. Ted sold 4 packages of white chocolate chip cookie dough and 8 packages of oatmeal cookie dough for a total of \$148. What is the cost each of one package of white chocolate chip cookie dough and one package of oatmeal cookie dough?
- 3) Arjun and Mei are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Arjun sold 11 rolls of plain wrapping paper and 15 rolls of holiday wrapping paper for a total of \$387. Mei sold 7 rolls of plain wrapping paper and 8 rolls of holiday wrapping paper for a total of \$220. What is the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper?
- 4) Sumalee and Jack are selling pies for a school fundraiser. Customers can buy blueberry pies and pumpkin pies. Sumalee sold 9 blueberry pies and 4 pumpkin pies for a total of \$85. Jack sold 15 blueberry pies and 9 pumpkin pies for a total of \$165. What is the cost each of one blueberry pie and one pumpkin pie?
- 5) Totsakan and Adam are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Totsakan sold 14 small boxes of oranges and 7 large boxes of oranges for a total of \$182. Adam sold 3 small boxes of oranges and 10 large boxes of oranges for a total of \$175. What is the cost each of one small box of oranges and one large box of oranges?
- 6) Matt and Shawna each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Matt spent \$214 on 16 ft<sup>2</sup> of grass sod and 10 bunches of ornamental grass. Shawna spent \$247 on 15 ft<sup>2</sup> of grass sod and 16 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) Mary and Mofor each improved their yards by planting daylilies and ornamental grass. They bought their supplies from the same store. Mary spent \$230 on 9 daylilies and 16 bunches of ornamental grass. Mofor spent \$189 on 4 daylilies and 15 bunches of ornamental grass. What is the cost of one daylily and the cost of one bunch of ornamental grass?
- 8) Lisa and Ndiba each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Lisa spent \$83 on 2 hostas and 7 pots of ivy. Ndiba spent \$66 on 3 hostas and 4 pots of ivy. Find the cost of one hosta and the cost of one pot of ivy.
- 9) Paul and Beth each improved their yards by planting daylilies and ivy. They bought their supplies from the same store. Paul spent \$167 on 13 daylilies and 6 pots of ivy. Beth spent \$188 on 12 daylilies and 14 pots of ivy. What is the cost of one daylily and the cost of one pot of ivy?



- 10) Beth and Paul each improved their yards by planting rose bushes and ornamental grass. They bought their supplies from the same store. Beth spent \$28 on 2 rose bushes and 8 bunches of ornamental grass. Paul spent \$102 on 15 rose bushes and 6 bunches of ornamental grass. Find the cost of one rose bush and the cost of one bunch of ornamental grass.
- 11) Mofor and Rob each improved their yards by planting hostas and ornamental grass. They bought their supplies from the same store. Mofor spent \$124 on 6 hostas and 13 bunches of ornamental grass. Rob spent \$212 on 14 hostas and 11 bunches of ornamental grass. What is the cost of one hosta and the cost of one bunch of ornamental grass?
- 12) Shawna's school is selling tickets to a play. On the first day of ticket sales the school sold 6 senior citizen tickets and 13 child tickets for a total of \$218. The school took in \$164 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?
- 13) Jill's school is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 3 senior citizen tickets and 16 child tickets for a total of \$212. The school took in \$205 on the second day by selling 7 senior citizen tickets and 11 child tickets. What is the price each of one senior citizen ticket and one child ticket?
- 14) The school that Ted goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 10 adult tickets and 15 student tickets for a total of \$175. The school took in \$156 on the second day by selling 3 adult tickets and 16 student tickets. What is the price each of one adult ticket and one student ticket?
- 15) The school that Jenny goes to is selling tickets to a play. On the first day of ticket sales the school sold 7 adult tickets and 11 student tickets for a total of \$235. The school took in \$215 on the second day by selling 8 adult tickets and 9 student tickets. What is the price each of one adult ticket and one student ticket?
- 16) Joe's school is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 4 senior citizen tickets and 12 child tickets for a total of \$216. The school took in \$377 on the second day by selling 13 senior citizen tickets and 14 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 17) Jessica's school is selling tickets to a fall musical. On the first day of ticket sales the school sold 3 senior citizen tickets and 14 student tickets for a total of \$161. The school took in \$137 on the second day by selling 11 senior citizen tickets and 6 student tickets. What is the price each of one senior citizen ticket and one student ticket?
- 18) 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 8 vans and 15 buses with 605 students. High School B rented and filled 3 vans and 8 buses with 310 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.
- 19) Yellowstone National Park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 6 vans and 12 buses with 354 students. High School B rented and filled 14 vans and 13 buses with 436 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.



- 20) 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 4 vans and 11 buses with 690 students. High School B rented and filled 11 vans and 13 buses with 897 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.
- 21) 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 15 buses with 828 students. High School B rented and filled 16 vans and 7 buses with 624 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 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 14 vans and 6 buses with 458 students. High School B rented and filled 10 vans and 15 buses with 745 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?
- 23) Yellowstone National Park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 12 vans and 14 buses with 528 students. High School B rented and filled 7 vans and 12 buses with 423 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) A plane traveled 704 miles to Lisbon and back. The trip there was with the wind. It took 8 hours. The trip back was into the wind. The trip back took 11 hours. Find the speed of the plane in still air and the speed of the wind.



## Answers to Assignment (ID: 4)

- 1) blueberry pie: \$5, lemon meringue pie: \$12
- 2) package of white chocolate chip cookie dough: \$5, package of oatmeal cookie dough: \$16
- 3) roll of plain wrapping paper: \$12, roll of holiday wrapping paper: \$17
- 4) blueberry pie: \$5, pumpkin pie: \$10
- 5) small box of oranges: \$5, large box of oranges: \$16
- 6) ft<sup>2</sup> of grass sod: \$9, bunch of ornamental grass: \$7
- 7) daylily: \$6, bunch of ornamental grass: \$11
- 8) hosta: \$10, pot of ivy: \$9
- 9) daylily: \$11, pot of ivy: \$4
- 10) rose bush: \$6, bunch of ornamental grass: \$2
- 11) hosta: \$12, bunch of ornamental grass: \$4
- 12) senior citizen ticket: \$6, child ticket: \$14
- 13) senior citizen ticket: \$12, child ticket: \$11
- 14) adult ticket: \$4, student ticket: \$9
- 15) adult ticket: \$10, student ticket: \$15
- 16) senior citizen ticket: \$15, child ticket: \$13
- 17) senior citizen ticket: \$7, student ticket: \$10
- 18) Van: 10, Bus: 35
- 19) Van: 7, Bus: 26
- 20) Van: 13, Bus: 58
- 21) Van: 18, Bus: 48
- 22) Van: 16, Bus: 39
- 23) Van: 9, Bus: 30
- 24) plane: 76 mph, wind: 12 mph



## Assignment

- 1) A boat traveled 340 miles downstream and back. The trip downstream took 10 hours. The trip back took 17 hours. Find the speed of the boat in still water and the speed of the current.
- 2) A boat traveled 308 miles downstream and back. The trip downstream took 14 hours. The trip back took 22 hours. What is the speed of the boat in still water? What is the speed of the current?
- 3) A boat traveled 297 miles downstream and back. The trip downstream took 9 hours. The trip back took 11 hours. Find the speed of the boat in still water and the speed of the current.
- 4) A plane traveled 1144 miles to Bangkok and back. The trip there was with the wind. It took 13 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.
- 5) A boat traveled 207 miles downstream and back. The trip downstream took 9 hours. The trip back took 23 hours. What is the speed of the boat in still water? What is the speed of the current?
- 6) The school that Jaidee goes to is selling tickets to a spring musical. On the first day of ticket sales the school sold 13 adult tickets and 11 student tickets for a total of \$272. The school took in \$309 on the second day by selling 15 adult tickets and 12 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 7) Sarawong's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 7 adult tickets and 5 student tickets for a total of \$154. The school took in \$160 on the second day by selling 11 adult tickets and 2 student tickets. What is the price each of one adult ticket and one student ticket?
- 8) Mike and Chelsea each improved their yards by planting hostas and shrubs. They bought their supplies from the same store. Mike spent \$70 on 8 hostas and 11 shrubs. Chelsea spent \$102 on 12 hostas and 15 shrubs. What is the cost of one hosta and the cost of one shrub?
- 9) Wilbur and Amanda are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and bags of daffodil bulbs. Wilbur sold 9 bags of windflower bulbs and 15 bags of daffodil bulbs for a total of \$312. Amanda sold 13 bags of windflower bulbs and 2 bags of daffodil bulbs for a total of \$136. Find the cost each of one bag of windflower bulbs and one bag of daffodil bulbs.
- 10) John and Ashley are selling pies for a school fundraiser. Customers can buy apple pies and blackberry pies. John sold 6 apple pies and 11 blackberry pies for a total of \$185. Ashley sold 11 apple pies and 2 blackberry pies for a total of \$103. What is the cost each of one apple pie and one blackberry pie?



- 11) Rob and Emily are selling fruit for a school fundraiser. Customers can buy small boxes of grapefruit and large boxes of grapefruit. Rob sold 4 small boxes of grapefruit and 10 large boxes of grapefruit for a total of \$130. Emily sold 11 small boxes of grapefruit and 12 large boxes of grapefruit for a total of \$187. What is the cost each of one small box of grapefruit and one large box of grapefruit?
- 12) Amy and Jacob are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Amy sold 11 rolls of plain wrapping paper and 9 rolls of holiday wrapping paper for a total of \$265. Jacob sold 16 rolls of plain wrapping paper and 10 rolls of holiday wrapping paper for a total of \$336. What is the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper?
- 13) A boat traveled 252 miles downstream and back. The trip downstream took 9 hours. The trip back took 21 hours. Find the speed of the boat in still water and the speed of the current.
- 14) Asanji's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 14 senior citizen tickets and 14 child tickets for a total of \$378. The school took in \$190 on the second day by selling 6 senior citizen tickets and 8 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 15) A boat traveled 252 miles downstream and back. The trip downstream took 12 hours. The trip back took 28 hours. What is the speed of the boat in still water? What is the speed of the current?
- 16) 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 9 vans and 14 buses with 1002 students. High School B rented and filled 6 vans and 4 buses with 348 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 17) 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 14 vans and 7 buses with 476 students. High School B rented and filled 8 vans and 16 buses with 944 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?
- 18) Jose's school is selling tickets to a fall musical. On the first day of ticket sales the school sold 16 senior citizen tickets and 7 child tickets for a total of \$156. The school took in \$112 on the second day by selling 10 senior citizen tickets and 8 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 19) Julia and Jack each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Julia spent \$34 on 5 ft<sup>2</sup> of grass sod and 2 bunches of ornamental grass. Jack spent \$74 on 7 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) Jacob and Shawna each improved their yards by planting hostas and ornamental grass. They bought their supplies from the same store. Jacob spent \$116 on 8 hostas and 15 bunches of ornamental grass. Shawna spent \$140 on 12 hostas and 14 bunches of ornamental grass. Find the cost of one hosta and the cost of one bunch of ornamental grass.
- 21) Natalie and Kristin are selling cheesecakes for a school fundraiser. Customers can buy French silk cheesecakes and apple cheesecakes. Natalie sold 9 French silk cheesecakes and 14 apple cheesecakes for a total of \$199. Kristin sold 8 French silk cheesecakes and 16 apple cheesecakes for a total of \$216. Find the cost each of one French silk cheesecake and one apple cheesecake.
- 22) Amanda and Mofor each improved their yards by planting daylilies and ornamental grass. They bought their supplies from the same store. Amanda spent \$90 on 10 daylilies and 4 bunches of ornamental grass. Mofor spent \$185 on 9 daylilies and 14 bunches of ornamental grass. Find the cost of one daylily and the cost of one bunch of ornamental grass.
- 23) Nicole and Amy are selling fruit for a school fundraiser. Customers can buy small boxes of grapefruit and large boxes of grapefruit. Nicole sold 13 small boxes of grapefruit and 2 large boxes of grapefruit for a total of \$113. Amy sold 10 small boxes of grapefruit and 13 large boxes of grapefruit for a total of \$213. What is the cost each of one small box of grapefruit and one large box of grapefruit?
- 24) Scott and Shayna are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. Scott sold 13 rolls of plain wrapping paper and 12 rolls of shiny wrapping paper for a total of \$236. Shayna sold 14 rolls of plain wrapping paper and 8 rolls of shiny wrapping paper for a total of \$200. What is the cost each of one roll of plain wrapping paper and one roll of shiny wrapping paper?



## Answers to Assignment (ID: 5)

- 1) boat: 27 mph, current: 7 mph
- 2) boat: 18 mph, current: 4 mph
- 3) boat: 30 mph, current: 3 mph
- 4) plane: 70 mph, wind: 18 mph
- 5) boat: 16 mph, current: 7 mph
- 6) adult ticket: \$15, student ticket: \$7
- 7) adult ticket: \$12, student ticket: \$14
- 8) hosta: \$6, shrub: \$2
- 9) bag of windflower bulbs: \$8, bag of daffodil bulbs: \$16
- 10) apple pie: \$7, blackberry pie: \$13
- 11) small box of grapefruit: \$5, large box of grapefruit: \$11
- 12) roll of plain wrapping paper: \$11, roll of holiday wrapping paper: \$16
- 13) boat: 20 mph, current: 8 mph
- 14) senior citizen ticket: \$13, child ticket: \$14
- 15) boat: 15 mph, current: 6 mph
- 16) Van: 18, Bus: 60
- 17) Van: 6, Bus: 56
- 18) senior citizen ticket: \$8, child ticket: \$4
- 19) ft<sup>2</sup> of grass sod: \$2, bunch of ornamental grass: \$12
- 20) hosta: \$7, bunch of ornamental grass: \$4
- 21) French silk cheesecake: \$5, apple cheesecake: \$11
- 22) daylily: \$5, bunch of ornamental grass: \$10
- 23) small box of grapefruit: \$7, large box of grapefruit: \$11
- 24) roll of plain wrapping paper: \$8, roll of shiny wrapping paper: \$11



## Assignment

- 1) Castel and John are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Castel sold 2 small boxes of oranges and 3 large boxes of oranges for a total of \$58. John sold 9 small boxes of oranges and 11 large boxes of oranges for a total of \$231. Find the cost each of one small box of oranges and one large box of oranges.
- 2) Alberto and Paul are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and packages of crocus bulbs. Alberto sold 10 bags of windflower bulbs and 8 packages of crocus bulbs for a total of \$220. Paul sold 6 bags of windflower bulbs and 13 packages of crocus bulbs for a total of \$255. What is the cost each of one bag of windflower bulbs and one package of crocus bulbs?
- 3) Cody and Bill are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Cody sold 15 rolls of plain wrapping paper and 13 rolls of holiday wrapping paper for a total of \$294. Bill sold 6 rolls of plain wrapping paper and 14 rolls of holiday wrapping paper for a total of \$276. What is the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper?
- 4) Darryl and Wilbur are selling cookie dough for a school fundraiser. Customers can buy packages of white chocolate chip cookie dough and packages of oatmeal cookie dough. Darryl sold 12 packages of white chocolate chip cookie dough and 8 packages of oatmeal cookie dough for a total of \$280. Wilbur sold 9 packages of white chocolate chip cookie dough and 15 packages of oatmeal cookie dough for a total of \$336. What is the cost each of one package of white chocolate chip cookie dough and one package of oatmeal cookie dough?
- 5) Aliyah and Heather each improved their yards by planting hostas and shrubs. They bought their supplies from the same store. Aliyah spent \$136 on 8 hostas and 8 shrubs. Heather spent \$140 on 5 hostas and 10 shrubs. Find the cost of one hosta and the cost of one shrub.
- 6) Ming and Huong each improved their yards by planting rose bushes and geraniums. They bought their supplies from the same store. Ming spent \$111 on 9 rose bushes and 4 geraniums. Huong spent \$237 on 15 rose bushes and 11 geraniums. Find the cost of one rose bush and the cost of one geranium.
- 7) Shreya and Sarawong each improved their yards by planting rose bushes and ivy. They bought their supplies from the same store. Shreya spent \$32 on 3 rose bushes and 4 pots of ivy. Sarawong spent \$76 on 7 rose bushes and 10 pots of ivy. What is the cost of one rose bush and the cost of one pot of ivy?
- 8) Abhasra and Jaidee each improved their yards by planting daylilies and ivy. They bought their supplies from the same store. Abhasra spent \$31 on 8 daylilies and 3 pots of ivy. Jaidee spent \$76 on 13 daylilies and 10 pots of ivy. Find the cost of one daylily and the cost of one pot of ivy.
- 9) Norachai and Pranav each improved their yards by planting grass sod and shrubs. They bought their supplies from the same store. Norachai spent \$68 on 10 ft<sup>2</sup> of grass sod and 2 shrubs. Pranav spent \$96 on 14 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.



- 10) Huong and Anjali each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Huong spent \$156 on 5 ft<sup>2</sup> of grass sod and 16 bunches of ornamental grass. Anjali spent \$108 on 2 ft<sup>2</sup> of grass sod and 14 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?
- 11) Jimmy's school is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 3 adult tickets and 8 student tickets for a total of \$59. The school took in \$114 on the second day by selling 10 adult tickets and 6 student tickets. What is the price each of one adult ticket and one student ticket?
- 12) The school that Bill goes to is selling tickets to a spring musical. On the first day of ticket sales the school sold 10 adult tickets and 16 student tickets for a total of \$294. The school took in \$300 on the second day by selling 14 adult tickets and 10 student tickets. What is the price each of one adult ticket and one student ticket?
- 13) The school that Krystal goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 10 senior citizen tickets and 4 child tickets for a total of \$70. The school took in \$95 on the second day by selling 4 senior citizen tickets and 15 child tickets. What is the price each of one senior citizen ticket and one child ticket?
- 14) The school that Jennifer goes to is selling tickets to a play. On the first day of ticket sales the school sold 9 senior citizen tickets and 12 child tickets for a total of \$192. The school took in \$190 on the second day by selling 10 senior citizen tickets and 10 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 15) Ndiba's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 5 adult tickets and 5 student tickets for a total of \$65. The school took in \$184 on the second day by selling 16 adult tickets and 8 student tickets. What is the price each of one adult ticket and one student ticket?
- 16) Kristin's school is selling tickets to a play. On the first day of ticket sales the school sold 11 senior citizen tickets and 8 student tickets for a total of \$137. The school took in \$69 on the second day by selling 10 senior citizen tickets and 3 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 17) 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 11 vans and 3 buses with 237 students. High School B rented and filled 5 vans and 16 buses with 781 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) Yellowstone National Park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 11 vans and 13 buses with 635 students. High School B rented and filled 7 vans and 9 buses with 431 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.



- 19) 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 9 vans and 3 buses with 288 students. High School B rented and filled 11 vans and 7 buses with 552 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 20) Yellowstone National Park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 5 vans and 13 buses with 748 students. High School B rented and filled 9 vans and 14 buses with 867 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?
- 21) A plane traveled 1360 miles to Madrid and back. The trip there was with the wind. It took 8 hours. The trip back was into the wind. The trip back took 10 hours. Find the speed of the plane in still air and the speed of the wind.
- 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 5 vans and 10 buses with 460 students. High School B rented and filled 16 vans and 15 buses with 775 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) A plane traveled 660 miles to Baltimore and back. The trip there was with the wind. It took 6 hours. The trip back was into the wind. The trip back took 10 hours. Find the speed of the plane in still air and the speed of the wind.
- 24) A boat traveled 105 miles downstream and back. The trip downstream took 7 hours. The trip back took 15 hours. Find the speed of the boat in still water and the speed of the current.



## Answers to Assignment (ID: 6)

- 1) small box of oranges: \$11, large box of oranges: \$12
- 2) bag of windflower bulbs: \$10, package of crocus bulbs: \$15
- 3) roll of plain wrapping paper: \$4, roll of holiday wrapping paper: \$18
- 4) package of white chocolate chip cookie dough: \$14, package of oatmeal cookie dough: \$14
- 5) hosta: \$6, shrub: \$11    6) rose bush: \$7, geranium: \$12    7) rose bush: \$8, pot of ivy: \$2
- 8) daylily: \$2, pot of ivy: \$5    9) ft<sup>2</sup> of grass sod: \$6, shrub: \$4
- 10) ft<sup>2</sup> of grass sod: \$12, bunch of ornamental grass: \$6    11) adult ticket: \$9, student ticket: \$4
- 12) adult ticket: \$15, student ticket: \$9    13) senior citizen ticket: \$5, child ticket: \$5
- 14) senior citizen ticket: \$12, child ticket: \$7    15) adult ticket: \$10, student ticket: \$3
- 16) senior citizen ticket: \$3, student ticket: \$13    17) Van: 9, Bus: 46    18) Van: 14, Bus: 37
- 19) Van: 12, Bus: 60    20) Van: 17, Bus: 51    21) plane: 153 mph, wind: 17 mph
- 22) Van: 10, Bus: 41    23) plane: 88 mph, wind: 22 mph    24) boat: 11 mph, current: 4 mph



## Assignment

- 1) A boat traveled 240 miles downstream and back. The trip downstream took 12 hours. The trip back took 20 hours. What is the speed of the boat in still water? What is the speed of the current?
- 2) A boat traveled 280 miles downstream and back. The trip downstream took 14 hours. The trip back took 35 hours. Find the speed of the boat in still water and the speed of the current.
- 3) A boat traveled 420 miles downstream and back. The trip downstream took 15 hours. The trip back took 35 hours. What is the speed of the boat in still water? What is the speed of the current?
- 4) 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 15 vans and 13 buses with 619 students. High School B rented and filled 14 vans and 12 buses with 574 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) Micaela's school is selling tickets to a play. On the first day of ticket sales the school sold 11 senior citizen tickets and 12 student tickets for a total of \$139. The school took in \$124 on the second day by selling 15 senior citizen tickets and 7 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 6) Willie and Jenny each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Willie spent \$185 on 15 hostas and 8 pots of ivy. Jenny spent \$241 on 13 hostas and 15 pots of ivy. What is the cost of one hosta and the cost of one pot of ivy?
- 7) Shanice and Kim each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Shanice spent \$154 on 15 ft<sup>2</sup> of grass sod and 7 bunches of ornamental grass. Kim spent \$189 on 11 ft<sup>2</sup> of grass sod and 16 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?
- 8) Kathryn and Ted are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Kathryn sold 13 rolls of plain wrapping paper and 10 rolls of holiday wrapping paper for a total of \$313. Ted sold 8 rolls of plain wrapping paper and 9 rolls of holiday wrapping paper for a total of \$241. Find the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper.
- 9) The indoor climbing gym 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 11 buses with 586 students. High School B rented and filled 14 vans and 4 buses with 368 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?
- 10) 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 3 vans and 11 buses with 612 students. High School B rented and filled 13 vans and 3 buses with 374 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.



- 11) Sumalee and Shawna are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Sumalee sold 6 rolls of plain wrapping paper and 15 rolls of holiday wrapping paper for a total of \$318. Shawna sold 7 rolls of plain wrapping paper and 9 rolls of holiday wrapping paper for a total of \$235. Find the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper.
- 12) The state fair is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 11 vans and 15 buses with 853 students. High School B rented and filled 6 vans and 11 buses with 609 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?
- 13) A plane traveled 2240 miles to Austin and back. The trip there was with the wind. It took 14 hours. The trip back was into the wind. The trip back took 16 hours. What is the speed of the plane in still air? What is the speed of the wind?
- 14) A plane traveled 408 miles to Austin and back. The trip there was with the wind. It took 3 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?
- 15) Yellowstone National Park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 9 vans and 7 buses with 300 students. High School B rented and filled 8 vans and 6 buses with 262 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.
- 16) Paul's school is selling tickets to a play. On the first day of ticket sales the school sold 15 senior citizen tickets and 11 child tickets for a total of \$331. The school took in \$253 on the second day by selling 11 senior citizen tickets and 9 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 17) The school that Beth goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 3 adult tickets and 6 child tickets for a total of \$57. The school took in \$171 on the second day by selling 13 adult tickets and 7 child tickets. What is the price each of one adult ticket and one child ticket?
- 18) Mofor and Wilbur each improved their yards by planting rose bushes and ornamental grass. They bought their supplies from the same store. Mofor spent \$78 on 16 rose bushes and 15 bunches of ornamental grass. Wilbur spent \$59 on 15 rose bushes and 7 bunches of ornamental grass. What is the cost of one rose bush and the cost of one bunch of ornamental grass?
- 19) Shawna and Matt are selling cookie dough for a school fundraiser. Customers can buy packages of sugar cookie dough and packages of oatmeal cookie dough. Shawna sold 9 packages of sugar cookie dough and 9 packages of oatmeal cookie dough for a total of \$234. Matt sold 16 packages of sugar cookie dough and 5 packages of oatmeal cookie dough for a total of \$207. What is the cost each of one package of sugar cookie dough and one package of oatmeal cookie dough?



- 20) Jill and Mike are selling fruit for a school fundraiser. Customers can buy small boxes of grapefruit and large boxes of grapefruit. Jill sold 15 small boxes of grapefruit and 3 large boxes of grapefruit for a total of \$117. Mike sold 10 small boxes of grapefruit and 4 large boxes of grapefruit for a total of \$116. What is the cost each of one small box of grapefruit and one large box of grapefruit?
- 21) The school that Ted goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 16 senior citizen tickets and 13 student tickets for a total of \$167. The school took in \$110 on the second day by selling 13 senior citizen tickets and 2 student tickets. What is the price each of one senior citizen ticket and one student ticket?
- 22) Jenny and Sumalee are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and apple cheesecakes. Jenny sold 15 pecan cheesecakes and 12 apple cheesecakes for a total of \$396. Sumalee sold 16 pecan cheesecakes and 7 apple cheesecakes for a total of \$318. Find the cost each of one pecan cheesecake and one apple cheesecake.
- 23) Joe and Jaidee are selling pies for a school fundraiser. Customers can buy cherry pies and lemon meringue pies. Joe sold 5 cherry pies and 6 lemon meringue pies for a total of \$190. Jaidee sold 6 cherry pies and 10 lemon meringue pies for a total of \$284. Find the cost each of one cherry pie and one lemon meringue pie.
- 24) Jessica and Shreya are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Jessica sold 16 small boxes of oranges and 11 large boxes of oranges for a total of \$443. Shreya sold 6 small boxes of oranges and 14 large boxes of oranges for a total of \$334. Find the cost each of one small box of oranges and one large box of oranges.



## Answers to Assignment (ID: 7)

- 1) boat: 16 mph, current: 4 mph
- 2) boat: 14 mph, current: 6 mph
- 3) boat: 20 mph, current: 8 mph
- 4) Van: 17, Bus: 28
- 5) senior citizen ticket: \$5, student ticket: \$7
- 6) hosta: \$7, pot of ivy: \$10
- 7) ft<sup>2</sup> of grass sod: \$7, bunch of ornamental grass: \$7
- 8) roll of plain wrapping paper: \$11, roll of holiday wrapping paper: \$17
- 9) Van: 12, Bus: 50
- 10) Van: 17, Bus: 51
- 11) roll of plain wrapping paper: \$13, roll of holiday wrapping paper: \$16
- 12) Van: 8, Bus: 51
- 13) plane: 150 mph, wind: 10 mph
- 14) plane: 119 mph, wind: 17 mph
- 15) Van: 17, Bus: 21
- 16) senior citizen ticket: \$14, child ticket: \$11
- 17) adult ticket: \$11, child ticket: \$4
- 18) rose bush: \$3, bunch of ornamental grass: \$2
- 19) package of sugar cookie dough: \$7, package of oatmeal cookie dough: \$19
- 20) small box of grapefruit: \$4, large box of grapefruit: \$19
- 21) senior citizen ticket: \$8, student ticket: \$3
- 22) pecan cheesecake: \$12, apple cheesecake: \$18
- 23) cherry pie: \$14, lemon meringue pie: \$20
- 24) small box of oranges: \$16, large box of oranges: \$17



## Assignment

- 1) Gabriella and Stefan are selling pies for a school fundraiser. Customers can buy apple pies and pumpkin pies. Gabriella sold 4 apple pies and 13 pumpkin pies for a total of \$323. Stefan sold 10 apple pies and 10 pumpkin pies for a total of \$380. What is the cost each of one apple pie and one pumpkin pie?
- 2) Kayla and Aliyah are selling fruit for a school fundraiser. Customers can buy small boxes of grapefruit and large boxes of grapefruit. Kayla sold 3 small boxes of grapefruit and 6 large boxes of grapefruit for a total of \$153. Aliyah sold 5 small boxes of grapefruit and 16 large boxes of grapefruit for a total of \$375. What is the cost each of one small box of grapefruit and one large box of grapefruit?
- 3) Daniel and Shanice each improved their yards by planting rose bushes and geraniums. They bought their supplies from the same store. Daniel spent \$48 on 6 rose bushes and 15 geraniums. Shanice spent \$49 on 15 rose bushes and 2 geraniums. What is the cost of one rose bush and the cost of one geranium?
- 4) Emily and Arjun are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. Emily sold 5 rolls of plain wrapping paper and 5 rolls of shiny wrapping paper for a total of \$150. Arjun sold 7 rolls of plain wrapping paper and 13 rolls of shiny wrapping paper for a total of \$318. Find the cost each of one roll of plain wrapping paper and one roll of shiny wrapping paper.
- 5) Dan and Darryl each improved their yards by planting daylilies and geraniums. They bought their supplies from the same store. Dan spent \$94 on 14 daylilies and 13 geraniums. Darryl spent \$68 on 12 daylilies and 8 geraniums. Find the cost of one daylily and the cost of one geranium.
- 6) Eduardo and Cody each improved their yards by planting grass sod and shrubs. They bought their supplies from the same store. Eduardo spent \$190 on 8 ft<sup>2</sup> of grass sod and 14 shrubs. Cody spent \$231 on 12 ft<sup>2</sup> of grass sod and 15 shrubs. What is the cost of one ft<sup>2</sup> of grass sod and the cost of one shrub?
- 7) Elisa and Micaela each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Elisa spent \$92 on 6 ft<sup>2</sup> of grass sod and 7 bunches of ornamental grass. Micaela spent \$130 on 7 ft<sup>2</sup> of grass sod and 11 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.
- 8) Trevon and Castel each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Trevon spent \$176 on 16 ft<sup>2</sup> of grass sod and 10 bunches of ornamental grass. Castel spent \$110 on 9 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.
- 9) The school that Imani goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 4 senior citizen tickets and 15 child tickets for a total of \$108. The school took in \$208 on the second day by selling 13 senior citizen tickets and 13 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.



- 10) The school that Molly goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 3 senior citizen tickets and 5 student tickets for a total of \$90. The school took in \$250 on the second day by selling 2 senior citizen tickets and 16 student tickets. What is the price each of one senior citizen ticket and one student ticket?
- 11) The school that Stefan goes to is selling tickets to a play. On the first day of ticket sales the school sold 2 senior citizen tickets and 10 student tickets for a total of \$150. The school took in \$221 on the second day by selling 13 senior citizen tickets and 7 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 12) The school that Anjali goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 7 adult tickets and 11 child tickets for a total of \$215. The school took in \$295 on the second day by selling 11 adult tickets and 13 child tickets. Find the price of an adult ticket and the price of a child ticket.
- 13) The school that Jaidee goes to is selling tickets to a spring musical. On the first day of ticket sales the school sold 3 senior citizen tickets and 12 student tickets for a total of \$120. The school took in \$136 on the second day by selling 2 senior citizen tickets and 15 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 14) The school that Sarawong goes to is selling tickets to a play. On the first day of ticket sales the school sold 3 senior citizen tickets and 4 child tickets for a total of \$63. The school took in \$82 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.
- 15) Yellowstone National Park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 10 vans and 11 buses with 788 students. High School B rented and filled 15 vans and 13 buses with 979 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?
- 16) 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 4 vans and 3 buses with 179 students. High School B rented and filled 13 vans and 16 buses with 888 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 17) Yellowstone National Park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 9 vans and 12 buses with 585 students. High School B rented and filled 15 vans and 5 buses with 390 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 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 2 vans and 9 buses with 282 students. High School B rented and filled 15 vans and 7 buses with 300 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.



- 19) A boat traveled 288 miles downstream and back. The trip downstream took 12 hours. The trip back took 16 hours. Find the speed of the boat in still water and the speed of the current.
- 20) Yellowstone National Park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 5 vans and 5 buses with 185 students. High School B rented and filled 11 vans and 8 buses with 344 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 local amusement park. The senior class at High School A rented and filled 15 vans and 12 buses with 771 students. High School B rented and filled 13 vans and 16 buses with 965 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) A boat traveled 117 miles downstream and back. The trip downstream took 9 hours. The trip back took 13 hours. What is the speed of the boat in still water? What is the speed of the current?
- 23) A boat traveled 253 miles downstream and back. The trip downstream took 11 hours. The trip back took 23 hours. Find the speed of the boat in still water and the speed of the current.
- 24) A boat traveled 288 miles downstream and back. The trip downstream took 16 hours. The trip back took 36 hours. Find the speed of the boat in still water and the speed of the current.



## Answers to Assignment (ID: 8)

- 1) apple pie: \$19, pumpkin pie: \$19
- 2) small box of grapefruit: \$11, large box of grapefruit: \$20
- 3) rose bush: \$3, geranium: \$2
- 4) roll of plain wrapping paper: \$12, roll of shiny wrapping paper: \$18
- 5) daylily: \$3, geranium: \$4                      6) ft<sup>2</sup> of grass sod: \$8, shrub: \$9
- 7) ft<sup>2</sup> of grass sod: \$6, bunch of ornamental grass: \$8      8) ft<sup>2</sup> of grass sod: \$6, bunch of ornamental grass: \$8
- 9) senior citizen ticket: \$12, child ticket: \$4                      10) senior citizen ticket: \$5, student ticket: \$15
- 11) senior citizen ticket: \$10, student ticket: \$13                      12) adult ticket: \$15, child ticket: \$10
- 13) senior citizen ticket: \$8, student ticket: \$8                      14) senior citizen ticket: \$13, child ticket: \$6
- 15) Van: 15, Bus: 58                      16) Van: 8, Bus: 49                      17) Van: 13, Bus: 39                      18) Van: 6, Bus: 30
- 19) boat: 21 mph, current: 3 mph                      20) Van: 16, Bus: 21                      21) Van: 9, Bus: 53
- 22) boat: 11 mph, current: 2 mph                      23) boat: 17 mph, current: 6 mph                      24) boat: 13 mph, current: 5 mph



## Assignment

- 1) A plane traveled 1456 miles to Singapore and back. The trip there was with the wind. It took 14 hours. The trip back was into the wind. The trip back took 26 hours. Find the speed of the plane in still air and the speed of the wind.
- 2) A plane traveled 2688 miles to Des Moines and back. The trip there was with the wind. It took 16 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.
- 3) The school that Natalie goes to is selling tickets to a spring musical. On the first day of ticket sales the school sold 6 senior citizen tickets and 11 child tickets for a total of \$125. The school took in \$155 on the second day by selling 15 senior citizen tickets and 5 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
- 4) Jacob's school is selling tickets to the annual talent show. On the first day of ticket sales the school sold 13 adult tickets and 4 student tickets for a total of \$182. The school took in \$237 on the second day by selling 12 adult tickets and 9 student tickets. What is the price each of one adult ticket and one student ticket?
- 5) Amanda and Krystal each improved their yards by planting daylilies and ivy. They bought their supplies from the same store. Amanda spent \$211 on 13 daylilies and 10 pots of ivy. Krystal spent \$195 on 9 daylilies and 11 pots of ivy. Find the cost of one daylily and the cost of one pot of ivy.
- 6) Nicole and Lisa are selling fruit for a school fundraiser. Customers can buy small boxes of tangerines and large boxes of tangerines. Nicole sold 7 small boxes of tangerines and 11 large boxes of tangerines for a total of \$160. Lisa sold 5 small boxes of tangerines and 5 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.
- 7) Scott and John are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and packages of crocus bulbs. Scott sold 4 bags of windflower bulbs and 15 packages of crocus bulbs for a total of \$295. John sold 13 bags of windflower bulbs and 7 packages of crocus bulbs for a total of \$249. Find the cost each of one bag of windflower bulbs and one package of crocus bulbs.
- 8) A boat traveled 420 miles downstream and back. The trip downstream took 15 hours. The trip back took 35 hours. What is the speed of the boat in still water? What is the speed of the current?
- 9) The school that Castel goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 5 adult tickets and 14 student tickets for a total of \$217. The school took in \$197 on the second day by selling 4 adult tickets and 13 student tickets. What is the price each of one adult ticket and one student ticket?



- 10) Cody and Mike each improved their yards by planting hostas and geraniums. They bought their supplies from the same store. Cody spent \$82 on 2 hostas and 13 geraniums. Mike spent \$60 on 3 hostas and 9 geraniums. Find the cost of one hosta and the cost of one geranium.
- 11) A plane traveled 576 miles to Mexico City and back. The trip there was with the wind. It took 3 hours. The trip back was into the wind. The trip back took 4 hours. Find the speed of the plane in still air and the speed of the wind.
- 12) A boat traveled 78 miles downstream and back. The trip downstream took 3 hours. The trip back took 13 hours. Find the speed of the boat in still water and the speed of the current.
- 13) A boat traveled 170 miles downstream and back. The trip downstream took 10 hours. The trip back took 34 hours. Find the speed of the boat in still water and the speed of the current.
- 14) 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 13 vans and 6 buses with 359 students. High School B rented and filled 11 vans and 15 buses with 532 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.
- 15) The school that Norachai goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 11 senior citizen tickets and 7 student tickets for a total of \$193. The school took in \$237 on the second day by selling 15 senior citizen tickets and 3 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 16) Abhasra's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 6 adult tickets and 12 student tickets for a total of \$144. The school took in \$196 on the second day by selling 9 adult tickets and 16 student tickets. What is the price each of one adult ticket and one student ticket?
- 17) Huong and Kathryn each improved their yards by planting daylilies and ornamental grass. They bought their supplies from the same store. Huong spent \$133 on 7 daylilies and 9 bunches of ornamental grass. Kathryn spent \$106 on 5 daylilies and 8 bunches of ornamental grass. Find the cost of one daylily and the cost of one bunch of ornamental grass.
- 18) Jimmy and Aliyah are selling pies for a school fundraiser. Customers can buy cherry pies and pumpkin pies. Jimmy sold 7 cherry pies and 8 pumpkin pies for a total of \$139. Aliyah sold 2 cherry pies and 13 pumpkin pies for a total of \$179. Find the cost each of one cherry pie and one pumpkin pie.
- 19) Bill and Darryl are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. Bill sold 2 rolls of plain wrapping paper and 7 rolls of shiny wrapping paper for a total of \$154. Darryl sold 13 rolls of plain wrapping paper and 9 rolls of shiny wrapping paper for a total of \$344. What is the cost each of one roll of plain wrapping paper and one roll of shiny wrapping paper?



- 20) Jennifer and Trevon are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and packages of crocus bulbs. Jennifer sold 11 packages of tulip bulbs and 8 packages of crocus bulbs for a total of \$190. Trevon sold 13 packages of tulip bulbs and 14 packages of crocus bulbs for a total of \$270. Find the cost each of one package of tulips bulbs and one package of crocus bulbs.
- 21) Krystal and Cody are selling pies for a school fundraiser. Customers can buy apple pies and blackberry pies. Krystal sold 13 apple pies and 5 blackberry pies for a total of \$181. Cody sold 5 apple pies and 13 blackberry pies for a total of \$269. Find the cost each of one apple pie and one blackberry pie.
- 22) Ndiba and Castel are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Ndiba sold 10 small boxes of oranges and 9 large boxes of oranges for a total of \$157. Castel sold 7 small boxes of oranges and 12 large boxes of oranges for a total of \$184. Find the cost each of one small box of oranges and one large box of oranges.
- 23) Kristin and Eduardo are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and packages of crocus bulbs. Kristin sold 8 packages of tulip bulbs and 6 packages of crocus bulbs for a total of \$220. Eduardo sold 5 packages of tulip bulbs and 11 packages of crocus bulbs for a total of \$268. Find the cost each of one package of tulips bulbs and one package of crocus bulbs.
- 24) Perry and Alberto are selling pies for a school fundraiser. Customers can buy cherry pies and lemon meringue pies. Perry sold 13 cherry pies and 8 lemon meringue pies for a total of \$294. Alberto sold 16 cherry pies and 3 lemon meringue pies for a total of \$266. Find the cost each of one cherry pie and one lemon meringue pie.



## Answers to Assignment (ID: 9)

- 1) plane: 80 mph, wind: 24 mph
- 2) plane: 140 mph, wind: 28 mph
- 3) senior citizen ticket: \$8, child ticket: \$7
- 4) adult ticket: \$10, student ticket: \$13
- 5) daylily: \$7, pot of ivy: \$12
- 6) small box of tangerines: \$4, large box of tangerines: \$12
- 7) bag of windflower bulbs: \$10, package of crocus bulbs: \$17
- 8) boat: 20 mph, current: 8 mph
- 9) adult ticket: \$7, student ticket: \$13
- 10) hosta: \$2, geranium: \$6
- 11) plane: 168 mph, wind: 24 mph
- 12) boat: 16 mph, current: 10 mph
- 13) boat: 11 mph, current: 6 mph
- 14) Van: 17, Bus: 23
- 15) senior citizen ticket: \$15, student ticket: \$4
- 16) adult ticket: \$4, student ticket: \$10
- 17) daylily: \$10, bunch of ornamental grass: \$7
- 18) cherry pie: \$5, pumpkin pie: \$13
- 19) roll of plain wrapping paper: \$14, roll of shiny wrapping paper: \$18
- 20) package of tulips bulbs: \$10, package of crocus bulbs: \$10
- 21) apple pie: \$7, blackberry pie: \$18
- 22) small box of oranges: \$4, large box of oranges: \$13
- 23) package of tulips bulbs: \$14, package of crocus bulbs: \$18
- 24) cherry pie: \$14, lemon meringue pie: \$14



## Assignment

- 1) Julio and Nicole each improved their yards by planting grass sod and geraniums. They bought their supplies from the same store. Julio spent \$123 on 14 ft<sup>2</sup> of grass sod and 9 geraniums. Nicole spent \$84 on 4 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.
- 2) Jack and Danielle are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Jack sold 8 small boxes of oranges and 10 large boxes of oranges for a total of \$258. Danielle sold 11 small boxes of oranges and 16 large boxes of oranges for a total of \$393. Find the cost each of one small box of oranges and one large box of oranges.
- 3) Kim and Stephanie each improved their yards by planting daylilies and ornamental grass. They bought their supplies from the same store. Kim spent \$114 on 15 daylilies and 6 bunches of ornamental grass. Stephanie spent \$128 on 14 daylilies and 8 bunches of ornamental grass. What is the cost of one daylily and the cost of one bunch of ornamental grass?
- 4) Maria and Ashley each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Maria spent \$190 on 8 ft<sup>2</sup> of grass sod and 11 bunches of ornamental grass. Ashley spent \$180 on 14 ft<sup>2</sup> of grass sod and 4 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?
- 5) Eugene and Gabriella each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Eugene spent \$184 on 13 ft<sup>2</sup> of grass sod and 6 bunches of ornamental grass. Gabriella spent \$171 on 9 ft<sup>2</sup> of grass sod and 9 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?
- 6) Jasmine and Ashley are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and bags of daffodil bulbs. Jasmine sold 12 bags of windflower bulbs and 15 bags of daffodil bulbs for a total of \$258. Ashley sold 11 bags of windflower bulbs and 9 bags of daffodil bulbs for a total of \$170. Find the cost each of one bag of windflower bulbs and one bag of daffodil bulbs.
- 7) Ashley and Lea each improved their yards by planting hostas and geraniums. They bought their supplies from the same store. Ashley spent \$123 on 9 hostas and 5 geraniums. Lea spent \$128 on 8 hostas and 6 geraniums. What is the cost of one hosta and the cost of one geranium?
- 8) The school that Danielle goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 9 adult tickets and 11 child tickets for a total of \$127. The school took in \$26 on the second day by selling 2 adult tickets and 2 child tickets. Find the price of an adult ticket and the price of a child ticket.
- 9) The school that Chelsea goes to is selling tickets to a play. On the first day of ticket sales the school sold 15 adult tickets and 13 student tickets for a total of \$316. The school took in \$93 on the second day by selling 2 adult tickets and 9 student tickets. What is the price each of one adult ticket and one student ticket?



- 10) The school that Ryan goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 12 senior citizen tickets and 2 child tickets for a total of \$162. The school took in \$106 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.
- 11) The school that Carlos goes to is selling tickets to a play. On the first day of ticket sales the school sold 10 senior citizen tickets and 15 student tickets for a total of \$255. The school took in \$139 on the second day by selling 8 senior citizen tickets and 7 student tickets. What is the price each of one senior citizen ticket and one student ticket?
- 12) The school that Micaela goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 11 adult tickets and 7 child tickets for a total of \$110. The school took in \$159 on the second day by selling 9 adult tickets and 12 child tickets. Find the price of an adult ticket and the price of a child ticket.
- 13) Willie's school is selling tickets to a fall musical. On the first day of ticket sales the school sold 11 adult tickets and 15 child tickets for a total of \$234. The school took in \$216 on the second day by selling 12 adult tickets and 12 child tickets. What is the price each of one adult ticket and one child ticket?
- 14) Yellowstone National Park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 9 vans and 10 buses with 361 students. High School B rented and filled 8 vans and 14 buses with 464 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.
- 15) The indoor climbing gym 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 6 buses with 341 students. High School B rented and filled 3 vans and 16 buses with 837 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 16) 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 4 vans and 14 buses with 636 students. High School B rented and filled 11 vans and 4 buses with 300 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 17) 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 9 vans and 5 buses with 322 students. High School B rented and filled 14 vans and 14 buses with 700 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 18) 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 4 vans and 7 buses with 221 students. High School B rented and filled 10 vans and 10 buses with 380 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?



- 19) 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 6 vans and 6 buses with 378 students. High School B rented and filled 15 vans and 10 buses with 670 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.
- 20) A boat traveled 288 miles downstream and back. The trip downstream took 9 hours. The trip back took 16 hours. What is the speed of the boat in still water? What is the speed of the current?
- 21) A boat traveled 90 miles downstream and back. The trip downstream took 6 hours. The trip back took 10 hours. What is the speed of the boat in still water? What is the speed of the current?
- 22) A plane traveled 1080 miles to Kampala and back. The trip there was with the wind. It took 9 hours. The trip back was into the wind. The trip back took 15 hours. What is the speed of the plane in still air? What is the speed of the wind?
- 23) A plane traveled 576 miles to Moscow and back. The trip there was with the wind. It took 4 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?
- 24) A plane traveled 2816 miles to Houston and back. The trip there was with the wind. It took 16 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?



## Answers to Assignment (ID: 10)

- 1) ft<sup>2</sup> of grass sod: \$3, geranium: \$9
- 2) small box of oranges: \$11, large box of oranges: \$17
- 3) daylily: \$4, bunch of ornamental grass: \$9
- 4) ft<sup>2</sup> of grass sod: \$10, bunch of ornamental grass: \$10
- 5) ft<sup>2</sup> of grass sod: \$10, bunch of ornamental grass: \$9
- 6) bag of windflower bulbs: \$4, bag of daffodil bulbs: \$14
- 7) hosta: \$7, geranium: \$12
- 8) adult ticket: \$8, child ticket: \$5
- 9) adult ticket: \$15, student ticket: \$7
- 10) senior citizen ticket: \$13, child ticket: \$3
- 11) senior citizen ticket: \$6, student ticket: \$13
- 12) adult ticket: \$3, child ticket: \$11
- 13) adult ticket: \$9, child ticket: \$9
- 14) Van: 9, Bus: 28
- 15) Van: 7, Bus: 51
- 16) Van: 12, Bus: 42
- 17) Van: 18, Bus: 32
- 18) Van: 15, Bus: 23
- 19) Van: 8, Bus: 55
- 20) boat: 25 mph, current: 7 mph
- 21) boat: 12 mph, current: 3 mph
- 22) plane: 96 mph, wind: 24 mph
- 23) plane: 120 mph, wind: 24 mph
- 24) plane: 152 mph, wind: 24 mph

