

Q4HW6 - All work on looseleaf.

Date_____ Period_____

- 1) Find the value of two numbers if their sum is 17 and their difference is 5.
- 2) Carlos and Brenda each improved their yards by planting grass sod and geraniums. They bought their supplies from the same store. Carlos spent \$93 on 6 ft² of grass sod and 5 geraniums. Brenda spent \$204 on 12 ft² of grass sod and 12 geraniums. What is the cost of one ft² of grass sod and the cost of one geranium?
- 3) Chelsea and Mark each improved their yards by planting grass sod and ivy. They bought their supplies from the same store. Chelsea spent \$57 on 2 ft² of grass sod and 7 pots of ivy. Mark spent \$47 on 3 ft² of grass sod and 5 pots of ivy. What is the cost of one ft² of grass sod and the cost of one pot of ivy?
- 4) Daniel and Jack are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Daniel sold 10 small boxes of oranges and 9 large boxes of oranges for a total of \$189. Jack sold 12 small boxes of oranges and 11 large boxes of oranges for a total of \$229. Find the cost each of one small box of oranges and one large box of oranges.
- 5) Jennifer and Dan each improved their yards by planting grass sod and ornamental grass. They bought their supplies from the same store. Jennifer spent \$74 on 8 ft² of grass sod and 9 bunches of ornamental grass. Dan spent \$62 on 8 ft² of grass sod and 3 bunches of ornamental grass. What is the cost of one ft² of grass sod and the cost of one bunch of ornamental grass?
- 6) Krystal and Scott are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Krystal sold 12 rolls of plain wrapping paper and 5 rolls of holiday wrapping paper for a total of \$164. Scott sold 4 rolls of plain wrapping paper and 5 rolls of holiday wrapping paper for a total of \$108. Find the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper.
- 7) 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 8 buses with 307 students. High School B rented and filled 3 vans and 4 buses with 131 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) Beth and Nicole are selling fruit for a school fundraiser. Customers can buy small boxes of tangerines and large boxes of tangerines. Beth sold 1 small box of tangerines and 1 large box of tangerines for a total of \$16. Nicole sold 5 small boxes of tangerines and 4 large boxes of tangerines for a total of \$68. What is the cost each of one small box of tangerines and one large box of tangerines?
- 9) 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 4 vans and 6 buses with 310 students. High School B rented and filled 3 vans and 8 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?
- 10) The school that Perry goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 4 adult tickets and 6 student tickets for a total of \$144. The school took in \$115 on the second day by selling 3 adult tickets and 5 student tickets. What is the price each of one adult ticket and one student ticket?
- 11) A plane traveled 854 miles to Kampala and back. The trip there was with the wind. It took 7 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.
- 12) Kim and Emily each improved their yards by planting daylilies and ornamental grass. They bought their supplies from the same store. Kim spent \$98.28 on 7 daylilies and 3 bunches of ornamental grass. Emily spent \$160.32 on 8 daylilies and 12 bunches of ornamental grass. Find the cost of one daylily and the cost of one bunch of ornamental grass.