

3. Lance and Daemon took a trip to Staples for school supplies. Lance bought 4 pens and 5 pencils, which cost him \$6.71 before tax. Daemon bought 5 pens and 3 pencils, which cost him \$7.12 before tax. Find the price of a pen and the price of a pencil.



4. A mix of 12 quarters and nickels together are worth \$1.20. How many quarters and nickels do you have?



* 5. At Jason's baseball game, tickets cost $\$4$ for adults and $\$2$ for students. If there were a total of 94 people at the game and the ticket revenues were $\$294$, how many students and how many adults attended?

a - adults
 s - students

$\# \text{ of people} \rightarrow \begin{cases} 4a + 2s = 294 & \text{(money equation)} \\ a + s = 94 \end{cases}$

$$\begin{array}{r} 4a + 2s = 294 \\ -2(a + s) = -188 \\ \hline 2a = 106 \\ \hline a = 53 \end{array}$$

$$\begin{array}{r} 53 + s = 94 \\ -53 \quad -53 \\ \hline s = 41 \end{array}$$

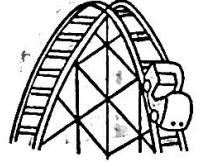
53 adults and 41 students attended the ^{base}ball game.

* 6. The difference of two numbers is 40. Their sum is 66. Find the numbers.



Homework – Systems Applications
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5. A group of 42 people go to an amusement park. The admission fee for adults is \$16. The admission fee for children is \$12. The group spent \$568 to get into the park. How many adults and how many children were in the group?



6. The drama club at Lincoln High School sells hot chocolate and coffee at the school's football games to make money for a special trip. At one game, they sold \$200 worth of hot drinks. They need to report how many of each type of drink they sold for their club records. Macha knows that they used 295 cups that night. If hot chocolate sells for 75¢ and coffee sells for 50¢, how many of each type of hot drink did they sell?

7. At a local amusement park it costs a fixed rate to park the car and a certain fee per person. One car entered with 3 passengers and paid \$22. The next car had 5 passengers and paid \$34. Find the cost of parking and the cost per person.

8. The length of Sally's garden is 4 meters greater than 3 times the width. The perimeter of her garden is 72 meters. What are the dimensions of Sally's garden?

