Word Problem 1

Discussion questions

1. It costs $3 for a car and $10 for a bus to park in a parking lot. There are 102 vehicles in the lot and altogether they paid $418 to park. How many cars are there in the lot?

2. Suppose that apples cost 11 cents and oranges cost 17 cents each. Jacques spent exactly $1.51 on apples and oranges. How many apples did Jacques buy?

3. Mary has $50.00. She bought lipsticks and then some shampoo, which is half the price of the lipstick. She then spends half of the remaining money, which left her with $15.00 in the end.

1) How much did the shampoo cost?

2) How much did the lipstick cost?

4. Five apples and three bananas cost $2.47. If the price of apples and bananas was exchanged, the same amount of fruit would cost $3.13 instead. How much would six apples and six bananas cost?

5. A number is composed of 4 digits. The last digit is equal to 4 times the first digit, the second digit is equal to 6 times the first digit and the third digit is equal to 3 plus the second digit. What is the sum of this number's digits?

6. The cost of visiting a zoo is $5 for an adult and $3 for a child. By the end of the day, 630 persons had visited the zoo and the zoo collected $2368. How many children visited the zoo on that day?

7. A 9.1 meters long wall is divided by 10 evenly spaced 10 cm square posts (including the posts on the corners). How many cm wide is the space between consecutive posts?

Practice Questions

1. A newspaper vendor receives a salary of $10 per week plus 5 cents for each newspaper sold. How many papers must the vendor sell to make $25 in a week?

2. The first four customers in a store spent an average of $12 each. How much must the next 3 customers spend on average so that the average for all of the customers is $15?

3. A grocer trades 162 barrels of flour valued at $6.00 a barrel for 54 barrels of sugar. What is the value of a barrel of sugar?

4. In a class of 100 students, 45 study mathematics, 26 study chemistry, and 27 study physics. Nineteen students study both mathematics and chemistry, 8 study mathematics and physics, 10 study chemistry and physics, and 3 students study all 3 subjects. How many students study only chemistry?