## Algebra 1 ECA Remediation

## Homework 19.2

1. Ming and Jenny are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Ming sold 3 rolls of plain wrapping paper and 11 rolls of holiday wrapping paper for a total of \$243. Jenny sold 7 rolls of plain wrapping paper and 13 rolls of holiday wrapping paper for a total of \$339. Write a system of equations that can be used to determine the cost of one roll of plain wrapping paper (P) and one roll of holiday wrapping paper (H).

3P + 11H = 243 7P + 13H = 339Answer

	Ming	Jenny
Plain	3	7
holiday	L1	13
Total	243	339

What is the cost of one roll of holiday wrapping paper?

3P+11H = 243 (1) 7P+13H = 339 (6)

Answer \_\_\_\_\_\_

2. 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 1 van and 12 buses with 515 students. High School B rented and filled 12 vans and 6 buses with 384 students. Each van and each bus carried the same number of students. Write a system of equations that can be used to determine the number of students each van holds (V) and the number of students each bus holds (B).

1V + 12B = 515Answer 12V + 6B = 384

S	chool A	Schools
Vans	1	12
Buses	12	6
Totals	515	384

How many students does each van hold?

Answer 11 students

12V + 4B = 515 (2)

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3. Lea's school is selling tickets to a play. On the first day of ticket sales the school sold 14 adult tickets and 2 student tickets for a total of \$180.40. The school took in \$222.20 on the second day by selling 7 adult tickets and 11 student tickets. Write a system of equations that can be used to find the cost a one senior citizen ticket (A) and one student ticket (S).

Answer 7A + 11S = 222,20

	Day 1	Day 2
Adult	14	7
Student	2	11
Total	\$180,40	\$ 222,20

What is the cost of one student ticket?

Answer \_\_\_\_ \$ 13.20

$$|44 + 28 = 180.40$$

$$-144 - 225 = -444.40$$

$$-205 = 264$$

$$-20 = -20$$

$$5 = 13.20$$