## Algebra 1 ECA Remediation

## Homework 19.1

1. Kali and Asanji are selling pies for a school fundraiser. Customers can buy blueberry pies and lemon meringue pies. Kali sold 5 blueberry pies and 10 lemon meringue pies for a total of \$245. Asanji sold 4 blueberry pies and 9 lemon meringue pies for a total of \$216. Write a system of equations that can be used to determine the cost of one blueberry pie (B) and one lemon meringue pie (L).

	5B+ 10L = 245
Answer _	4B+ 9L=216

	1 Kali	1 Asanji
Blueberry	5	4
Lemon Meringue	10	9
Total	245	216

What is the cost of one blueberry pie?

		_
Answer	#9	
	1	5B+10(20) = 245
		5B+200 =245
		-200 -200
		50 = 45

5B+10L=245 (1) 4B+9L=216 (2)	
B+2L=49 (+5) -48-8L=-196 (4) +B+9L=216	<b>50 5</b>
L=20	5B =

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 5 vans and 12 buses with 642 students. High School B rented and filled 11 vans and 6 buses with 372 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).

$$5A + 12B = 642$$
Answer  $11A + 6B = 372$ 

	School A	SchoolB
Vans	5	11
Buses	12	6
Totals	642	372
107013		<del></del>

How many students does each bus hold?

$$5V + 12B = 642$$

$$11X + 4B = 372$$

$$5V + 12B = 642$$

$$\frac{-22.Y - 12B}{-17} = \frac{-102}{-17}$$

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3. Matt's school is selling tickets to a play. On the first day of ticket sales the school sold 9 senior citizen tickets and 14 student tickets for a total of \$307.60. The school took in \$234.40 on the second day by selling 11 senior citizen tickets and 7 student tickets. Write a system of equations that can be used to find the cost a one senior citizen ticket (C) and one student ticket (S).

9C + 14S = 307,60Answer 11C + 7S = 234,40

	Dayl	Day 2
Senior	9	11
Student	14	7
Total	\$ 307,60	# 234,40

What is the cost of one student ticket?

Answer # 14,00

9c +14S = 307.60 1	_
11 C + 75 = 234,40 @	)

$$9(12.40) + 148 = 307.60$$

$$111.60 + 148 = 307.60$$

$$\frac{148}{14} = \frac{196}{14}$$

$$S = 14$$

$$9C + 14S = 307.60$$

$$-22C - 14S = -468.80$$

$$-13C = -161.20$$

$$-13$$

$$C = 12.40$$