Algebra 1 ECA Remediation

Homework 19.3

1. Amy and Nicole are selling pies for a school fundraiser. Customers can buy apple pies and lemon meringue pies. Amy sold 5 apple pies and 9 lemon meringue pies for a total of \$198. Nicole sold 3 apple pies and 14 lemon meringue pies for a total of \$265. Write a system of equations that can be used to determine the cost of one apple (A) and one lemon meringue pie (L).

	5A+9L=198
Answer	3A +14L= 265

	Amy	Nicole
Apple	51	3
Lemon Meringue	9	14
Total	198	265

Answer	#	17.00

$$\begin{array}{c}
-15A - 27L = -594 \\
15A + 70L = 1325 \\
\hline
43L = 731 \\
\hline
43 \\
\hline
43
\end{array}$$

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 6 vans and 6 buses with 378 students. High School B rented and filled 12 vans and 9 buses with 585 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).

$$6V + 6B = 378$$
Answer $12V + 9B = 585$

5	2 choo 18	
Vans	4	12
Buses	6	9
Total	378	585

How many students does each bus hold?

$$6V + 6B = 378 \text{ (1)}$$

$$12V + 9B = 585 \text{ (2)}$$

$$-12V - 12B = -756 \text{ (3)}$$

$$12V + 9B = 585 \text{ (2)}$$

$$-3B = -171$$

$$-3 = -3$$

$$B = 57$$

Algebra 1 ECA Remediation

Name Answer Key

Homework 19.3

3. Dan's school is selling tickets to a play. On the first day of ticket sales the school sold 8 senior citizen tickets and 14 student tickets for a total of \$137.80. The school took in \$45.30 on the second day by selling 2 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).

8c + 14s = 137.80Answer 2c + 7s = 45.30

1	Say 1	Day 2
Senior	8	2
Students	14	7
Total	#137.80	\$45.30

What is the cost of one student ticket?

Answer # 3.10

$$2(11.80) + 75 = 45.30$$

$$23.60 + 75 = 45.30$$

$$-23.60 - 23.60$$

$$\frac{75}{7} = \frac{21.70}{7}$$

$$5 = 3.10$$

$$8C + 145 = 137.80$$
 D
 $2C + 75 = 45.30$ @