## Algebra 1 ECA Remediation

## Homework 14.3

1. Bob sells cars and earns a base salary of \$500 per week plus \$180 for each car he sells.

Write an equation to represent the total amount of money Bob earns in a week (m) if he sells (c) cars.

Answer M = 180c + 500 M = 180c + 500

If Bob made \$2120 last week, how many cars did he sell?

2/20 = 180c + 500 -500 - 500 1620 = 180c 100 - 180 0 = 9Answer 9 cars

2. An amusement park charges \$70 for each adult ticket and \$45 for each child ticket. One group's total cost was \$570.

Write an equation to represent the number of adult tickets (a) and the number of

child tickets (c) that the group bought considering they spent \$570.

Answer 
$$\frac{70 \, a + 45c = 570}{T_0 \, fal}$$
  $\frac{45c = 570}{T_0 \, fal}$   $\frac{45c = 570}{T_0 \, fal}$ 

If there were 3 adults in the group, how many children were there in the group?

Answer 8 children 70(3) + 45 c = 570 
$$\frac{45c}{45} = \frac{360}{45}$$
At axi can charges a flat fee of \$2.00 plus \$1.75 for each mile.

3. A taxi cab charges a flat fee of \$2.00 plus \$1.75 for each mile

Write an equation to represent the cost (c) of a cab ride that travels (m) miles.

Answer 
$$C = 1.75 m + 2.00$$
 Each mile 1.75  
 $C = 1.75 m + 2.00$ 

If my last cab ride cost a total of \$40.50, how many miles did I travel?

40,50= 1,75m+2,00 22 = m

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Name Answer Key

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4. Emily has \$40 to spend on ground beef and chicken for a party. The beef costs \$5 per pound and the chicken costs \$4 per pound.

Write an equation to represent the number of pounds of beef (b) and the number of pounds of chicken (c) that Emily can buy for \$40.

Answer 56+4c=40

Beef - 5 5b+4e=40 Chicken - 4 Total #40

If Emily buys 5 pounds of chicken, how many pounds of beef can she buy?

Answer 4/bs of chicken

C = 516s

56+4(5)=40

56+20=40 -20-20

$$\frac{5b}{5} = \frac{20}{5}$$

$$b = 4$$

Homework Answers

$$1. m = 180c + 500; 9$$

$$2.70a + 45c = 570; 8$$

$$3. c = 1.75m + 2.00; 22$$

$$4.5b + 4c = 40; 4$$