## Algebra 1 ECA Remediation

## Homework 14.2

1. Fred sells cars and earns a base salary of \$625 per week plus \$150 for each car he sells.

Write an equation to represent the total amount of money Fred earns in a week

(m) if he sells (c) cars.

(m) if he sells (c) cars. # 625 Base pay # 150 each car Answer M = 150C + 625 M = 150C + 625

If Fred made \$1075 last week, how many cars did he sell?

Answer 3 Cars 
$$\frac{3 \text{ Cars}}{450 = 150 \text{ C}} = \frac{150 \text{ C}}{150}$$

2. An amusement park charges \$85 for each adult ticket and \$50 for each child ticket. One group's total cost was \$320.

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 \$320.

child tickets (c) that the group bought considering they spent \$320.

Adult \$85 320 = 
$$85a + 50c$$

Answer  $320 = 85a + 50c$ 

$$\frac{Child #50}{Total #320}$$

If there were 2 adults in the group, how many children were there in the group?

Answer 3 children 320 = 170 + 50 c 320 = 170 + 50 c

3. A taxi cab charges a flat fee of \$3.50 plus \$1.50 for each mile.

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

$$flat fee = 3.50 \qquad C = 1.50 \text{m} + 3.50$$
Answer  $C = 1.50 \text{m} + 3.50$  each mile = 1.50

If my last cab ride cost a total of \$12.50, how many miles did I travel?

Answer 
$$\frac{(9 \text{ miles})}{(9.50 + 1.50 \text{ m})} = \frac{1.50 \text{ m} + 3.50}{-3.50} = \frac{1.50 \text{ m}}{1.50} = \frac{1.50 \text{ m}}{1.50}$$

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Name Answer Key

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4. Marie has \$40 to spend on ground beef and chicken for a party. The beef costs \$4 per pound and the chicken costs \$3 per pound.

Write an equation to represent the number of pounds of beef (b) and the number of pounds of chicken (c) that Marie can buy for \$40.  $R_{-}L$ # 40 = 46 + 3 c

Answer 40 = 46 + 3cBeef #4

Chicken \*3

Total #40

If Marie buys 4 pounds of beef, how many pounds of chicken can she buy?

Answer 8/bs chicken

Beef = 4/bs

40 = 4(4) + 3040 = 16 + 30

-16 -16

 $\frac{24}{3} = \frac{3c}{3}$ 

8 = C

Homework Answers

1. m = 150c + 625; 3

2.85a + 50c = 320; 3

3. c = 1.50m + 3.50; 6

4.4b + 3c = 40; 8