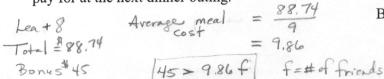
Algebra 1 ECA Remediation

Homework 5.43

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1) Lea and eight of her friends went out to eat. Their total bill was \$88.74. Lee is going to receive a bonus check from work for \$45. She would like to treat a group of friends to dinner at this same restuarant.

A. Based on the average cost per person of the current meal, write an inequality to find the maximum number of people that she can pay for at the next dinner outing.



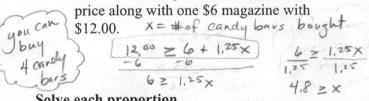
B What is the maximum number of meals that she that Lee can pay for if she has \$45 to spend pays for and the average cost of the meals is the same as the current restuarant bill?

- 3) You bought a magazine for \$6 and 3 candy bars for \$9.75.
 - A. Write an inequality that can be used to determine the maximum number of candy bars that can be purchased along with one \$6 magazine with a total of \$12.00.

I magazine # 6
$$C = price of ore candy bar$$

+ 3 cardy bars $\frac{-6}{-6}$ $\frac{-3}{3}$ $\frac{-3$

B. What is the maximum number of candy bars that can be purchased at this same price along with one \$6 magazine with



Solve each proportion.

$$5) \frac{(4-k)}{12} = \frac{6}{4}$$

$$\frac{4(4-k) = 6(12)}{16 - 4k = 72}$$

$$\frac{-16}{-4} = \frac{56}{-4}$$

$$\frac{-4k}{-4} = \frac{56}{-4}$$

$$\frac{-4k}{-4} = \frac{56}{-4}$$

$$\frac{-4k}{-4} = \frac{56}{-4}$$

Name Answer Key

- 2) Elisa spent \$9 on 4 batteries.
 - A. Write an inequality that can be used to determine the maximum number of batteries that Elisa can buy with \$15.50.

B. What is the maximum number of batteries that Elisa can buy with \$15.50?

- 4) Mary rented a bike from Mike's Bikes. It cost \$14 plus an hourly rate. It cost Mary \$28.70 to rent the for 6 hours.
 - A. Write an inequality to find the maximum number of hours that Mary can rent the bike for if she has \$55 to spend.

r= hourly rate
$$28.70 = 4r + 14$$

6 hours -14 -14 -14
 $+ 14 \pm 28.70$ Total $-14.70 = 6r$ -14 -14

B. What is the maximum number of hours that Mary can rent the bike for if she $h = \# \circ f$ hours has \$55 to spend?

$$55 \ge 2.45h + 14$$

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6)
$$\frac{n+6}{4} = \frac{5}{3}$$

 $3(n+6) = 4(5)$
 $3n+18 = 20$
 $-18 = -18$
 $3n = \frac{2}{3}$
 $n = \frac{2}{3}$