guided
notes

Module 7   Solving Linear Equations and
Inequalities of Two Variables
Lesson 4   Solving Consumer/Business
Problems Using Linear Equations
and Inequalities of Two Variables

Lesson Objectives

- Write and solve linear equations of two variables to find solutions to business/consumer problems.
- Write and solve inequalities of two variables to find solutions to business/consumer problems.

When solving business or consumer problems, make sure to define the

_____.

1 ▶ Newt spent a total of $12.00 on items at the concession stand. He bought

candied ants for $1.00 per bag and grilled grubs for $2.00 each. If Newt

bought 4 bags of candied ants, how many grilled grubs did he buy?

_____

2 ▶ The SAT raw score is calculated by awarding one point for each correct

answers and penalizing the student $\frac{1}{4}$ point for each incorrect answer. If a

student's raw score is $40\frac{3}{4}$ and the student answered 42 questions correctly,

how many questions did the student answer incorrectly?

_____

3 ▶ The gym charges a membership fee of $75 and a monthly fee of $20. Write an

inequality that shows the relationship between the maximum amount Newt has

available to spend, *s*, and the cost of being a member of the gym for *m*

months. _____

4 Use the inequality from question 3 to determine the maximum number of months Newt can be a member of Golden Gym if the most he can spend is $210. _____

5 The Boudreaux family went to the movies and spent $24 on tickets. The cost of an adult's ticket was $6, while the cost of a child's ticket was $4. Find all the possible combinations of adults and children in the Boudreaux family who went to the movies.

_____

_____

_____

_____
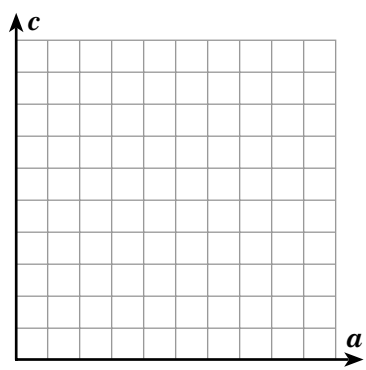
When using a graph to solve a problem, for which a sensible solution requires whole numbers only, look for points on the line that are located where the horizontal and vertical grid lines cross. Those points will have _____ coordinates.

410-467-3300