Test Prep: Extended-Response Questions

Strategy: Show All Your Work

Name _____ Date _____

> To organize your thoughts and demonstrate your understanding, **show or describe your steps**.
>
> To solve the problem, try using these strategies:
> - Reread the item.
> - Use the Test-Prep strategy.
> - Apply appropriate rules, definitions, properties, or strategies.
> - Analyze your answers.

Solve. Show all your work. *TIP: Budget your time carefully.*

1. A class has a total of 28 students. The number of girls is 8 less than twice the number of boys.

Part A
Write a system of equations to find the number of boys and girls in the class.

Part B
How many boys and girls are in the class?

Answer: _____

Answer: _____

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2. A cable company charges a fee of $35.99 per month for service. In addition, you can rent movies for $2.99 each.

Part A
Write an equation to represent the total cost per month, c, to have cable and rent m movies.

Part B
One month, Quan's cable bill was $59.91. How many movies did he rent?

Answer: _____

Answer: _____

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3. Marjorie buys a square table. The perimeter of the table top is 168 in.

Part A
What is the side length of the table?

Part B
Marjorie buys a square tablecloth that has an area of 3600 in.^{2}. How far does the tablecloth hang down from the edge of the table?

Answer: _____

Answer: _____