

Name \_\_\_\_\_ Date \_\_\_\_\_

**Which Is the Best Method?****Using Graphing, Substitution, and Linear Combinations**

- Antonio wants to subscribe to a service that will allow him to rent DVDs and stream movies online. Movie Madness offers a subscription for \$14.25 a month. With this subscription, Antonio will receive one DVD at a time and can check out as many DVDs as he wants each month. However, he must pay \$1.40 for each movie he streams online. The Show Must Go On! offers a subscription for \$8.50 a month. With this subscription, Antonio will receive one DVD at a time and can checkout as many DVDs as he wants each month. However, he must pay \$3.25 for each movie he streams online.
  - Write a system of linear equations to represent this problem situation.
  - Without actually analyzing this system, make a prediction about which subscription plan will be the better deal. Explain your reasoning.
  - Analyze the two subscription plans and determine which one is the better deal. Use any or all of the methods you have learned in Chapter 6 to determine your answer.

d. Write a short paragraph recommending which subscription Antonio should choose.

e. Which method do you think provides the quickest way to analyze a system of equations to determine which one is the better deal? Explain your reasoning.