34. **FITNESS** You want to burn 225 calories while exercising at a gym. The number of calories that you burn per minute on different machines at the gym is shown below.

Stair machine	Elliptical trainer	Stationary bike
You burn 5 Cal/min.	You burn 8 Cal/min.	You burn 6 Cal/min.

a. Suppose you have 40 minutes to exercise at the gym and you want to use the stair machine and stationary bike. How many minutes should you spend on each machine so that you burn 225 calories?

b. Suppose you have 30 minutes to exercise at the gym and you want to use the stair machine and the elliptical trainer. How many minutes should you spend on each machine so that you burn 225 calories?

35. ◆ **MULTIPLE REPRESENTATIONS** It costs $15 for a yearly membership to a movie club at a movie theater. A movie ticket costs $5 for club members and $8 for nonmembers.

a. **Writing a System of Equations** Write a system of equations that you can use to find the number x of movies viewed after which the total cost y for a club member, including the membership fee, is the same as the cost for a nonmember.

b. **Making a Table** Make a table of values that shows the total cost for a club member and a nonmember after paying to see 1, 2, 3, 4, 5, and 6 movies.

c. **Drawing a Graph** Use the table to graph the system of equations. Under what circumstances does it make sense to become a movie club member? *Explain* your answer by using the graph.

36. **CHALLENGE** With a minimum purchase of $25, you can open a credit account with a clothing store. The store is offering either $25 or 20% off of your purchase if you open a credit account. You decide to open a credit account. Should you choose $25 or 20% off of your purchase? *Explain*.

MIXED REVIEW FOR TAKS

TAKS **PRACTICE** at classzone.com

37. 🔻 **TAKS PRACTICE** A teacher collects data on the number of hours her students spent studying for a test and the scores they received on the test. If the teacher plots the data on a scatter plot, what relationship will the teacher most likely see between the number of hours spent studying and the students' test scores? *TAKS Obj. 2*

(A) A positive correlation   (B) A negative correlation

(C) A constant correlation   (D) No correlation