

53. **MULTI-STEP PROBLEM** One day, the ratio of skiers to snowboarders on the mountain at a ski resort was  $13 : 10$ . The resort sold a total of 253 lift tickets during the day.
- Find the ratio of snowboarders on the mountain to all of the skiers and snowboarders on the mountain.
  - Use the ratio from part (a) to find the number of lift tickets sold to snowboarders during the day.
  - During the same day, the ratio of snowboarders who rented snowboards to snowboarders that have their own snowboards is  $4 : 7$ . Find the number of snowboarders who rented a snowboard.
54. **TX TAKS REASONING** You and a friend are waiting in separate lines to purchase concert tickets.
- Interpret** Every 10 minutes, the cashier at the head of your line helps 3 people. There are 11 people in line in front of you. Write a proportion that can be used to determine how long you will have to wait to purchase tickets.
  - Interpret** Every 5 minutes, the cashier at the head of your friend's line helps 2 people. There are 14 people in line in front of your friend. Write a proportion that can be used to determine how long your friend will have to wait to purchase tickets.
  - Compare** Will you or your friend be able to purchase concert tickets first? *Explain.*
55. **CHALLENGE** A car traveling 50 miles per hour goes 15 miles farther in the same amount of time as a car traveling 30 miles per hour. Find the distance that each car travels.



## MIXED REVIEW FOR TAKS

TAKS **PRACTICE** at [classzone.com](http://classzone.com)

### REVIEW

Lesson 3.2;  
TAKS Workbook

56. **TX TAKS PRACTICE** If  $2x + 3 = y$ , which of the following is an equivalent equation? *TAKS Obj. 2*

- (A)  $x + 7 = y + 4$                        (B)  $2x - 3 = y - 3$   
 (C)  $3x + 3 = y + x$                        (D)  $4x + 3 = 2y$

### REVIEW

Lesson 1.4;  
TAKS Workbook

57. **TX TAKS PRACTICE** Which problem is best represented by the number sentence  $x + 2(x - 3) = 42$ ? *TAKS Obj. 10*

- (F) Chris spent  $x$  dollars on lunch and \$3 less than twice that much on dinner. He spent \$42 altogether. How much did he spend on lunch?  
 (G) Sonia earned  $x$  dollars one day at work. She used that money to buy 2 shirts that cost  $(x - 3)$  dollars each. At the end of the day she had \$42 left from her earnings. How much money did Sonia earn?  
 (H) Anil has 2 jobs. One week, he worked 3 hours at one job and  $x$  hours at the other. He worked 42 hours that week. How many hours did he work at his other job?  
 (J) Hernane bought a DVD and 2 CDs. The DVD cost  $x$  dollars, and each CD cost 3 dollars less than the DVD. Hernane spent \$42. How much did the DVD cost?