

37. **TAKS REASONING** Write a numerical expression including parentheses that has the same value when you remove the parentheses.
38. **ONLINE SHOPPING** The regular shipping fee (in dollars) for an online computer store is given by the expression  $0.5w + 4.49$  where  $w$  is the weight (in pounds) of the item. The fee (in dollars) for rush delivery is given by  $0.99w + 6.49$ . You purchase a 26.5 pound computer. How much do you save using regular shipping instead of rush delivery?
39. **TAKS REASONING** You make and sell flags for \$10 each. Each flag requires \$4.50 worth of fabric. You pay \$12.99 for a kit to punch holes to hang the flags. Your expenses (in dollars) are given by the expression  $4.50m + 12.99$  where  $m$  is the number of flags you make. Your income is given by the expression  $10s$  where  $s$  is the number of flags you sell. Your profit is equal to the difference of your income and your expenses.
- You make 50 flags and sell 38 of them. Find your income and your expenses. Then find your profit.
  - Explain* how you could use a single expression to determine your profit.
40. **TAKS REASONING** Each year Heisman Trophy voters select the outstanding college football player. Each voter selects three players ranked first to third. A first place vote is worth 3 points, a second place vote is worth 2 points, and a third place vote is worth 1 point. Let  $f$ ,  $s$ , and  $t$  be, respectively, the number of first place, second place, and third place votes a player gets. The table shows the votes for the winner and the runner-up in 2003.



Player	First place	Second place	Third place
Jason White	319	204	116
Larry Fitzgerald	253	233	128

- Analyze** *Explain* why the expression  $3f + 2s + t$  represents a player's point total.
- Calculate** Use the expression in part (a) to determine how many more points Jason White got than Larry Fitzgerald got.
- CHALLENGE** Can you rearrange the order of the votes for each player in such a way that Larry Fitzgerald would have won? *Explain*.



## MIXED REVIEW FOR TAKS

**TAKS PRACTICE** at classzone.com

### REVIEW

Skills Review  
Handbook p. 927;  
TAKS Workbook

### REVIEW

Skills Review  
Handbook p. 929;  
TAKS Workbook

41. **TAKS PRACTICE** What is the total surface area of a rectangular prism with edge lengths of 3 centimeters, 5 centimeters, and 9 centimeters? **TAKS Obj. 8**
- (A)  $17 \text{ cm}^2$       (B)  $87 \text{ cm}^2$       (C)  $135 \text{ cm}^2$       (D)  $174 \text{ cm}^2$
42. **TAKS PRACTICE** A student bikes 1.5 kilometers to school and the same distance home. How many meters does the student bike altogether? **TAKS Obj. 8**
- (F) 3 m      (G) 150 m      (H) 300 m      (J) 3000 m