

43. **INVESTMENTS** Matt invested \$2000 in stocks and bonds. This year the bonds paid 8% interest, and the stocks paid 6% in dividends. Matt received a total of \$144 in interest and dividends. How much money did he invest in stocks? in bonds?
44. **CHALLENGE** You drive a car 45 miles at an average speed  $r$  (in miles per hour) to reach your destination. Due to traffic, your average speed on the return trip is  $\frac{3}{4}r$ . The round trip took a total of 1 hour 45 minutes. Find the average speed for each leg of your trip.



## MIXED REVIEW FOR TAKS

**TAKS PRACTICE** at classzone.com

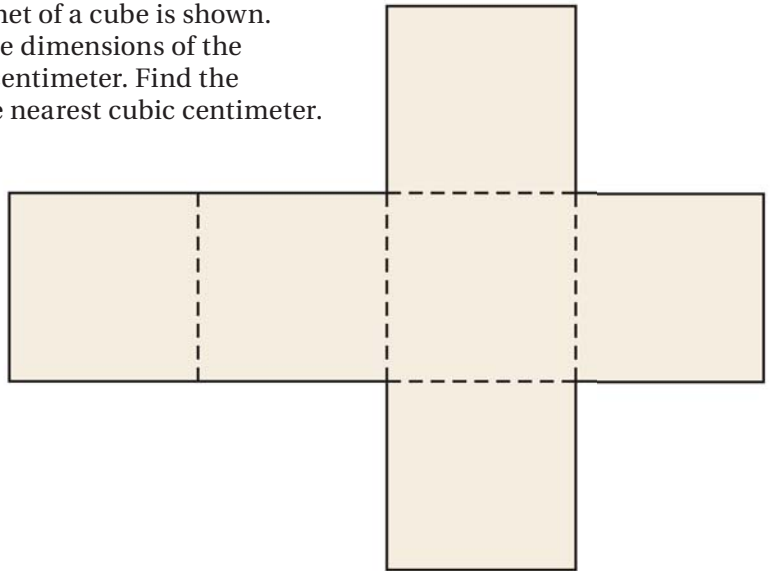
### REVIEW

TAKS Preparation  
p. 622;  
TAKS Workbook

45. **TAKS PRACTICE** The net of a cube is shown. Use a ruler to measure the dimensions of the cube to the nearest half centimeter. Find the volume of the cube to the nearest cubic centimeter.

**TAKS Obj. 8**

- (A)  $6 \text{ cm}^3$
- (B)  $8 \text{ cm}^3$
- (C)  $16 \text{ cm}^3$
- (D)  $38 \text{ cm}^3$



## QUIZ for Lessons 7.3–7.4

Solve the linear system using elimination. (pp. 444, 451)

- |                                      |                                      |  |
|--------------------------------------|--------------------------------------|--|
| 1. $x + y = 4$<br>$-3x + y = -8$     | 2. $2x - y = 2$<br>$6x - y = -2$     | 3. $x + y = 5$<br>$-x + y = -3$                            |
| 4. $x + 3y = -10$<br>$-x + 5y = -30$ | 5. $x + 3y = 10$<br>$3x - y = 13$    | 6. $x + 7y = 10$<br>$x + 2y = -8$                          |
| 7. $4x - y = -2$<br>$3x + 2y = 7$    | 8. $x + 3y = 1$<br>$5x + 6y = 14$    | 9. $3x + y = 21$<br>$x + y = 1$                            |
| 10. $2x - 3y = -5$<br>$5x + 2y = 16$ | 11. $7x + 2y = 13$<br>$4x + 3y = 13$ | 12. $\frac{1}{3}x + 5y = -3$<br>$-\frac{2}{3}x + 6y = -10$ |

