36. TAKS REASONING One type of stone formation found in Carlsbad Caverns in New Mexico is called a column. This cylindrical stone formation is connected to the ceiling and the floor of a cave.
a. Rewrite the formula for the circumference of a circle, $C=2 \pi r$, so that you can easily calculate the radius of a column given its circumference.
b. What is the radius, to the nearest tenth of a foot, of a column that has a circumference of 7 feet? 8 feet? 9 feet? (Use 3.14 for $\pi$.)
c. Explain how you can find the area of a cross section of a column if you know its circumference.

37. CHALLENGE The distance $d$ (in miles) traveled by a car is given by $d=55 t$ where $t$ is the time (in hours) the car has traveled. The distance $d$ (in miles) traveled is also given by $d=20 g$ where $g$ is the number of gallons of gasoline used by the car. Write an equation that expresses $g$ as a function of $t$.

## MIXed REVIEW for TAKS

## REVIEW

Lesson 1.6;
TAKS Workbook

## REVIEW

Skills Review Handbook p. 916; TAKS Workbook
38. TAKS PRACTICE Which function includes the points $(5,11)$ and $(9,13)$ ? TAKS Obj. 3
(A) $f(x)=5 x-14$
(B) $f(x)=2 x+1$
(C) $f(x)=3 x-4$
(D) $f(x)=0.5(x+17)$
39. TAKS PRACTICE Jed earns $\$ 12,500$, and he puts $\$ 2000$ into a savings fund. What percent of his earnings does he put into the fund? TAKS Obj. 9
(F) $16 \%$
(G) $18 \%$
(H) $22 \%$
(J) $25 \%$

## QUZ for Lessons 3.7-3.8

Use the percent equation to answer the question. (p. 176)

1. What percent of 150 is 72 ?
2. 31 is $5 \%$ of what number?
3. What percent of 310 is 93 ?
4. What number is $46 \%$ of 55 ?

Write the equation so that $\boldsymbol{y}$ is a function of $\boldsymbol{x}$. (p. 184)
5. $5 x-3 y=9$
6. $3 x+2 y+5 x=12$
7. $4(2 x-y)=6$
8. 다 GEOMETRY The volume $V$ of a cylinder is given by the formula $V=\pi r^{2} h$ where $r$ is the radius of the cylinder and $h$ is the height of the cylinder. Solve the formula for $h$. (p. 184)

