Solve for the indicated Variable.

5. 
$$V = LWH$$
 for  $H$ 

10. 
$$V = \frac{1}{3}\pi r^2 h$$
 for h

6. 
$$I = Prt$$
 for  $r$ 

15. 
$$P = 2L + 2W$$
 for W

7. 
$$V = \pi r^2 h$$
 for  $h$ 

11. 
$$I = \frac{E}{R}$$
 for  $R$ 

9. 
$$V = \frac{1}{3}Bh$$
 for B

17. 
$$D = \frac{C-S}{n} \quad for S$$

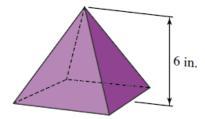
8. 
$$S = 2\pi rh$$
 for  $r$ 

20. 
$$A = P(1 + rt)$$
 for t

21. 
$$A = \frac{1}{2}h(B+b)$$
 for  $b$  19.  $R = C(1+r)$  for  $r$ 

19. 
$$R = C(1+r)$$
 for  $r$ 

- **25.** A rectangular solid has a base with length 6 cm and width 4 cm. If the volume of the solid is 72 cubic centimeters (cm<sup>3</sup>), find the height of the solid. See exercise 5.
- **26.** A cylinder has a radius of 4 inches (in.). If its volume is  $144\pi$  cubic inches (in.<sup>3</sup>), what is the height of the cylinder? See exercise 7.
- **27.** A principal of \$2000 was invested in a savings account for 4 years. If the interest earned for that period was \$480, what was the interest rate? See exercise 6.
- **28.** The retail selling price of an item, R, was \$20.70. If its cost, C, to the store was \$18, what was the markup rate, r? See exercise 19.
- **29.** The radius of the base of a cone is 3 cm. If the volume of the cone is  $24\pi$  cm<sup>3</sup>, find the height of the cone. See exercise 10.
- **30.** The volume of a pyramid is 30 in.<sup>3</sup>. If the height of the pyramid is 6 in., find the area of its base, *B*. See exercise 9.



- **31.** If the perimeter of a rectangle is 60 ft and its length is 18ft, find its width. See exercise 15.
- **32.** The yearly depreciation, *D*, for a piece of machinery was \$1500 over 8 years. If the cost of the machinery was \$15,000, what was its salvage value, *S*? See exercise 17.
- **33.** A principal of \$5000 was invested in a time-deposit account paying 9% annual interest. If the amount in the account at the end of a certain period was \$7250, for how long was the money invested? See exercise 20.
- **34.** The area of a trapezoid is 36 in.<sup>2</sup>. If its height is 4 in. and the length of one of the bases is 11 in., find the length of the other base. See exercise 21.