1.2 Practice with Calculat® AND Calcylew®

In Exercises 1-12, solve the equation. Check your solution. (See Examples 1 and 2.)

▶ 1.
$$3w + 7 = 19$$

2.
$$2g - 13 = 3$$

3.
$$11 = 12 - q$$

4.
$$10 = 7 - m$$

5.
$$5 = \frac{z}{-4} - 3$$

6.
$$\frac{a}{3} + 4 = 6$$

7.
$$\frac{h+6}{5}=2$$

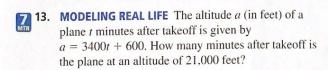
8.
$$\frac{d-8}{-2}=12$$

$$\triangleright$$
 9. $12v + 10v + 14 = 80$

10.
$$24 = 13n - 4n + 9$$

11.
$$3.8y + 5.6y - 2 = 2.7$$

$$12. \ \frac{7}{10}c - 8 - \frac{1}{2}c = -16$$





7. 14. MODELING REAL LIFE You are trying to use less water on laundry this month than you used on laundry last month. The amount of water w (in gallons) you save after x loads of laundry is given by w(x) = 160 - 20x. How many loads of laundry did you do this month if you saved 40 gallons of water?

In Exercises 15–22, solve the equation. Check your solution. (See Example 3.)

15.
$$4(z+5)=32$$

16.
$$-2(4g-3)=30$$

▶ 17.
$$6 + 5(m + 1) = 26$$

18.
$$5h + 2(11 - h) = -5$$

19.
$$-15 = -6(3 + x) + 4(x - 6)$$

20.
$$1 = 5(r+9) - 2(1-r)$$

21.
$$83.8 = 8.6c - 7.3(6 - 2c)$$

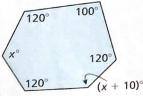
22.
$$3y - 2\frac{3}{4}(\frac{1}{2}y - 4) = -2$$

NUMBER SENSE In Exercises 23-28, write and solve an equation to find the number.

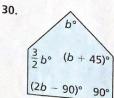
- 23. The sum of twice a number and 13 is 75.
- **24.** The difference of three times a number and 4 is -19.
- **25.** Eight plus the quotient of a number and 3 is -2.
- **26.** The sum of twice a number and half the number is 10^{10}
- 27. Six times the sum of a number and 15 is -42.
- **28.** Four times the difference of a number and 7 is 12.

USING TOOLS In Exercises 29 and 30, find the value of the variable. Then find the angle measures of the polygon. Use a protractor to check the reasonableness of your answer.

29.



Sum of angle measures: 720°



Sum of angle measures: 540°