Practice

For use with pages 125-129

Solve the equation. Check your solution.

1.
$$10 + 3(x + 2) = 31$$

2.
$$-2(x-6)+7=35$$

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$$10 + 3(x + 2) = 31$$
 2. $-2(x - 6) + 7 = 35$ **3.** $-20 - (4x - 1) = -15$

4.
$$12(x + 3) - 3x = 117$$

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 5. $-25 + 4(2x+5) = -61$ **6.** $187 = 19 + 7(13 - x)$

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7.
$$20 = 14 + 3(x + 8)$$

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 8. $-5(2x - 7) + 24 = 89$ **9.** $-14 = 6x - 8(x + 3)$

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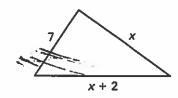
10.
$$-7x_1 - (10 - x) = -58$$

11.
$$48 = 15 + 6(4 + x) - 3x$$

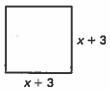
10.
$$-7x - (10 - x) = -58$$
 11. $48 = 15 + 6(4 + x) - 3x$ **12.** $23 - 7(x + 3) + 5x = 10$

Find the value of x for the given triangle, rectangle, or square.

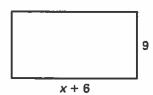
13. Perimeter
$$= 29$$
 units



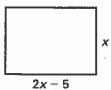
14. Perimeter
$$= 28$$
 units



15. Perimeter
$$= 52$$
 units



16. Perimeter
$$= 38$$
 units



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Name	Nata

Practice

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- **17.** The length of a rectangle is 3 meters more than twice its width. The perimeter of the rectangle is 48 meters. Let w represent the width.
 - a. Sketch a diagram of the rectangle.

- **b.** Write an equation for the perimeter of the rectangle.
- c. Find the length and width of the rectangle.
- **18.** A class of 42 students and 2 teachers plan a trip to an observatory. The class has raised \$485 for the trip. Admission is \$5 per person and bus rental is \$230. With the remaining money, the class can invite guests to fill the remaining seats on the bus. Write and solve an equation to find the number of guests g the class can invite.
- **19.** A plumber charges \$30 per hour and \$42 for each hour of overtime. For a job, the plumber works 3 regular hours, *h* overtime hours, and charges \$195 for new parts. The total amount of the bill for the job is \$390. Write and solve an equation to find the number of overtime hours the plumber worked.