Name _

LESSON 3.2 **Practice C** For use with pages 141–146

Solve the equation.

1. $9n + 23 = 5$	2. $4y - 3 = 13$	3.	32 = 17 - x
4. $1.3c - 2.5 = 1.4$	5. $-8.5 = 2.2m - 15.1$	6.	7.3 = 13.8 - 5b
7. $\frac{2z}{3} - 7 = -9$	8. $\frac{p}{3.4} + 10.4 = 15.4$	9.	$\frac{w}{2.5} - 1.4 = 2.3$

Write an equation for the function described. Then find the input.

- **10.** The output of a function is 13 more than 4 times the input. Find the input when the output is -17.
- **11.** The output of a function is 7 more than $\frac{1}{2}$ of the input. Find the input when the output is 19.
- **12.** The output of a function is 16 less than 5 times the input. Find the input when the output is 8.5.

Solve the equation.

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- **13.** 10a 3a = 35 **14.** -28 = -9y + 2y **15.** 24 = 3x 9x
- **16.** Solve the equations 4x + 3 = 7, 4x + 3 = 11, and 4x + 3 = 15. Predict the solution of the equation 4x + 3 = 19. *Explain*.
- **17. Piano Keyboards** One model of a portable keyboard, Model A, has a total of 61 black and white keys. It has five full octaves with 5 black keys in each octave. The Model B portable keyboard has 76 black and white keys. It has six full octaves with 5 black keys in each octave and one extra black key.

- **a.** Find the number of white keys on the Model A keyboard.
- **b.** Find the number of white keys on the Model B keyboard.
- **c.** How many more white keys are there on the Model B keyboard than there are on the Model A keyboard?
- **18.** Water Tower A town's water tower holds 1 million gallons of water. During the day, the tower is only $\frac{2}{5}$ of its full capacity. The tower will be refilled at night, when water

consumption is low, using a pump that pumps water into the tower at a rate of 2000 gallons of water per minute. How long will it take to bring the tower back to full capacity? *Explain* how you got your answer. If the town had a pump that only filled the tank at 500 gallons per minute, how much longer would it take to fill the tank?