Practice A

For use with pages 32-39

Write the verbal phrase as an algebraic expression. Use *x* for the variable in your expression.

- 1. Three more than a number
- 3. Difference of eight and a number -

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- 5. Six times a given number
- 7. A number divided by five
- 9. Two less than a number, divided by nine
- 11. The sum of a number and one, times three

Write the verbal sentence as an equation or an inequality.

- **13.** Two more than a number x is ten.
- **15.** Eight more than a number y is greater than or equal to nine.
- **17.** Six less than a number z is less than 15.
- **19.** The product of two and a number x is 22.
- **21.** One more than four times a number b is five.
- **23.** A number *a* divided by two is greater than five.

In Exercises 25 and 26, which equation correctly models the situation?

- **25.** *Model Planes* Your model plane collection consists of 15 models. Each plane is either a propeller plane or a jet. There are 7 more propeller planes than jets. Let x be the number of jets.
- **26.** *Bake Sale* You make 3 batches of cookies for a bake sale. If you follow the recipe, three batches makes 6 dozen cookies. Let *d* be the number of dozen cookies in one batch.

2. Four less than a number

4. The sum of a number and one

8. Seven more than twice a given number

14. The sum of a number y and four is 13.

20. Twelve is less than six times a number x.

22. The quotient of a number t and three is eight.24. Four less than the product of six and a number

18. Eleven minus a number b is two.

a. 3d = 6 **b.** $\frac{d}{6} = 3$

a is eight.

10. Two more than the product of ten and a number

12. The sum of a number and six, divided by two

16. The difference of a number a and two is seven.

6. One half of a given number

a. x + (x + 7) = 15 **b.** x + 7 = 15

Airplane Speed In Exercises 27–30, use the following information.

A commercial airplane has been flying for two hours and has flown a distance of 360 miles. How fast has it been flying?

Verbal Model: Speed of airplane · Flight time = Distance traveled

- 27. Assign labels to the three parts of the verbal model.
- 28. Use the labels to translate the verbal model into an algebraic model.
- **29.** Use mental math to solve the equation.
- **30.** Check to see if your answer is reasonable.

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