## NAME

Module 4 Solving Problems Using Linear Equations of One Variable
Lesson 1 Translating Sentences into Algebraic Equations

## additional practice

Write an equation to represent each sentence or situation. If no variable is given, a variable other than $n$ may be used.

1. Seven less than a number is 30 .
$\underline{n-7}=30$
2. The product of 12 and a number is 60 .

$$
12 n=60
$$

5. A number divided by three is 15 .
$n \div 3=15$
6. The sum of 12 and twice a number is 26 .

$$
12+2 n=26
$$

9. The product of seven and a number, increased by four, is -10 .

$$
7 n+4=-10
$$

11. The sum of three times a number and six is equivalent to two times the number, decreased by 10 .

$$
3 n+6=2 n-10
$$

13. A 20 -foot board is cut into two pieces. The length of the shorter board is two feet longer than half the length of the longer board.

$$
\left|\frac{b}{2}+2\right|+b=20
$$

15. Jack's score was eight more than Rick's. The product of their scores was 240 .
$R(R+8)=240$
16. A number increased by four is three.
$n+4=3$
17. One less than a number is 15 .
$\underline{n-1=15}$
18. Eight more than a number is the same as three times the number.
$n+8=3 n$
19. A number is divided by three; this quotient is increased by seven. The result is 11 . $\frac{n}{3}+7=11$
20. The product of seven and the sum of a number and four is 56 .
$7(n+4)=56$
21. Four times the quantity of a number plus six is the same as the product of six and the number.

$$
4(n+6)=6 n
$$

14. A car's current value is $\$ 4,000$. The current value is $\frac{5}{16}$ of its original price.
$\$ 4,000=\frac{5}{16} p$
15. After three bags of topsoil were added, a garden plot contained nine bags of topsoil.
$3+t=9$
16. A rectangle's width is three less than twice its length.

$$
w=2 l-3
$$

18. Light bulbs are packaged in a crate that holds six rows of $n$ light bulbs each. The crate holds a total of 72 light bulbs.

$$
6 n=72
$$

