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## Lesson 3 Reteach

## Write Two-Step Equations

Some verbal sentences translate into two step equations.

## Example 1

Translate each sentence into an equation.

## Sentence

Four more than three times a number is 19 .

## Equation

Five is seven less than twice a number.
$3 n+4=19$
$5=2 n-7$
Seven more than the quotient of a number and 3 is 10 .
$7+\frac{n}{3}=10$
After a sentence has been translated into a two step equation, you can solve the equation.

## Example 2

Translate the sentence into an equation. Then find the number. Thirteen more than five times a number is 28.
Words Thirteen more than five times a number is 28 .
Variable Let $n=$ the number.
Equation $\quad \begin{aligned} 5 n+13 & =28 \\ -13 & =-13\end{aligned} \quad \begin{array}{ll}5 n & =15 \\ 5 n & =\frac{15}{5} \\ n & =3\end{array} \quad \begin{array}{ll}\text { Write the equation. } \\ \text { Subtraction Property of Equality }\end{array}$
Therefore, the number is 3 .

## Exercises

Define a variable. Then translate each sentence into an equation.
Then find each number.

1. Five more than twice a number is 7 .
2. Fourteen more than three times a number is 2 .
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3. Seven less than twice a number is 5 .
4. Two more than four times a number is -10 .
5. Eight less than three times a number is -14 .
6. Three more than the quotient of a number and 2 is 7 .
