

## Extra Practice

### Lesson 3-1

(pages 120–126)

Translate each sentence into an equation or formula.

1. A number  $z$  times 2 minus 6 is the same as  $m$  divided by 3.  $2z - 6 = m \div 3$
2. The cube of  $a$  decreased by the square of  $b$  is equal to  $c$ .  $a^3 - b^2 = c$
3. Twenty-nine decreased by the product of  $x$  and  $y$  is the same as  $z$ .  $29 - xy = z$
4. The perimeter  $P$  of an isosceles triangle is the sum of twice the length of leg  $a$  and the length of the base  $b$ .  $P = 2a + b$
5. Thirty increased by the quotient of  $s$  and  $t$  is equal to  $v$ .  $30 + (s \div t) = v$
6. The area  $A$  of a rhombus is half the product of lengths of the diagonals  $a$  and  $b$ .  $A = 0.5ab$

Translate each equation into a verbal sentence. 7–12. See margin for sample answers.

7.  $0.5x + 3 = -10$
8.  $\frac{n}{-6} = 2n + 1$
9.  $18 - 5h = 13h$
10.  $n^2 = 16$
11.  $2x^2 + 3 = 21$
12.  $\frac{m}{n} + 4 = 12$

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7. Sample answer: The sum of five-tenths times  $x$  and three is equal to negative ten.
8. Sample answer: The quotient of  $n$  and negative six is the same as the sum of two times  $n$  and one.
9. Sample answer: Eighteen decreased by five times  $h$  is the same as thirteen times  $h$ .
10. Sample answer: The square of  $n$  is equal to sixteen.
11. Sample answer: The sum of 3 and twice  $x$  squared is equal to twenty-one.
12. Sample answer: The sum of 4 and the quotient of  $m$  and  $n$  is equal to twelve.