Name	Date	Class

## Reteach

LESSON

## **2-5** Solving for a Variable

Solving for a variable in a formula can make it easier to use that formula. The process is similar to that of solving multi-step equations. Find the operations being performed on the variable you are solving for, and then use inverse operations.

	Operations	Solve using Inverse Operations
A = lwSolve for w.	• <i>w</i> is multiplied by <i>l</i> .	• Divide both sides by <i>l</i> .
P = 2I + 2wSolve for <i>w</i> .	<ul> <li><i>w</i> is multiplied by 2.</li> <li>Then 2<i>l</i> is added.</li> </ul>	<ul> <li>• Add -2/ to both sides.</li> <li>• Then divide both sides by 2.</li> </ul>
The formula $A = \frac{1}{2}$	$\frac{1}{2}bh$ relates the area A of a trian	gle The order of the inverse

to its base *b* and height *h*. Solve the formula for *b*.

$A = \frac{1}{2}bh$	b is multiplied by $\frac{1}{2}$ .
$\left(\frac{2}{1}\right) \cdot A = \left(\frac{2}{1}\right)\frac{1}{2}bh$	Multiply both sides by $\frac{2}{1}$ .
2A = bh	b is multiplied by h.
$\frac{2A}{h} = \frac{bh}{h}$	Divide both sides by h.
$\frac{2A}{h} = b$	Simplify.

Solve for the indicated variable.

**1.** P = 4s for s **2.** a + b + c = 180 for b **3.** P

b **3.** 
$$P = \frac{KT}{V}$$
 for K

operations is the order of operations in reverse.

The formula  $V = \frac{1}{3}lwh$  relates the volume of a square pyramid to its base length *l*, base width *w*, and height *h*.

- 4. Solve the formula for *w*.
- **5.** A square pyramid has a volume of 560 in<sup>3</sup>, a base length of 10 in., and a height of 14 in. What is its base width?

Name	Date	Class

<b>Reteach</b>	
<b>2-5</b> Solving for a	Variable continued
Any equation with two or n	nore variables can be solved for any given variable.
Solve $x = \frac{y-z}{10}$ for y.	
$x=\frac{y-z}{10}$	y - z is divided by 10.
$10(x) = 10\left(\frac{y-z}{10}\right)$	Multiply both sides by 10.
10x = y - z	z is subtracted from y. Add z to both sides.
<u>+z</u> <u>+z</u>	
10x + z = y	
Solve $a = b + \frac{c}{d}$ for $c$ .	
$a = b + rac{c}{d}$	
<u>-b</u> <u>-b</u>	Add -b to each side.
$a-b=rac{c}{d}$	
$d(a - b) = \left(\frac{c}{d}\right)d$	Multiply both sides by d.
d(a-b)=c	Simplify.

State the first inverse operation to perform when solving for the indicated variable.

6. y = x + z; for z 7.  $\frac{f+g}{2} = h$ ; for g 8.  $t = -3r + \frac{s}{5}$ ; for s

## Solve for the indicated variable.

**9.** 3ab = c; for a **10.**  $y = x + \frac{z}{3}$ ; for z **11.**  $\frac{m+3}{n} = p$ ; for m

LESSON Practice A		LESSON Practice B	
2-5 Solving for a Variable		2-5 Solving for a Variable	
Answer each of the following.         1. The formula K = C + 273 is used to convert temperatures from degrees         convert temperatures from degrees         Celsius to Kelvin. Solve this formula	rmula $T = \frac{1}{f}$ relates the period of d wave T to its frequency f. this formula for f.	Answer each of the following.         1. The formula $C = 2\pi r$ relates the radius $r$ of a circle to its circumference $C$ . Solve the formula for $r$ .         2. The formula $y =$ slope-intercept formula for $m$ .	mx + b is called the form of a line. Solve this
for C.	. 1	$r = \frac{C}{2\pi}$	$m = \frac{y - b}{x}$
<i>C</i> = <i>K</i> - 273	$t = \frac{1}{T}$	Solve each equation for the variable indicated.	
Solve each equation for the variable indicated.		<b>3.</b> $4c = d$ for $c$ <b>4.</b> $n - 6m = 8$ for $n$ <b>5.</b>	2p + 5r = q for $p$
<b>3.</b> $x = 5y$ for $y$ <b>4.</b> $s + 4t = r$ for $s$	<b>5.</b> 3 <i>m</i> − 7 <i>n</i> = <i>p</i> for <i>m</i>	$c = \frac{d}{4}$ $n = 8 + 6m$	$p=\frac{q-5r}{2}$
$y = \frac{x}{5}$ $s = r - 4t$	$m = \frac{p+7n}{3}$	$\frac{1}{2} = \frac{1}{2} = \frac{1}$	h = 4 = k  for  i
6. $6 = hj + k$ for j 6 = hj + k for j 6 = hj + k for j $7 = \frac{v}{W} = 9$ for w	8. $\frac{a+3}{b} = c$ for a	$\frac{x = \frac{-10 - z}{y}}{\frac{y}{z}} \qquad b = \frac{a}{c}$	$j = \frac{h-4}{k}$
$j = \frac{w}{h}$ $w = \frac{w}{g}$	a = bc - 3	Answer each of the following.	
Answer each of the following.		<b>9.</b> The formula $c = 5p + 215$ relates <i>c</i> , the total cost	
<ol> <li>The formula d = rt relates the distance an object travels d, to its average rate of speed r, and amount of time t that it travels</li> </ol>	,	in dollars of hosting a birthday party at a skating rink, to $p$ , the number of people attending. <b>a.</b> Solve the formula $c = 5p + 215$ for $p$ .	$p = \frac{c - 215}{5}$
<b>a.</b> Solve the formula $d = rt$ for $t$ .	$t = \frac{d}{r}$	b. If Allie's parents are willing to spend \$300 for a party, how many people can attend?	17
b. How many hours would it take for a car to travel 150 miles at an average rate of 50 miles per hour?	3	<b>10.</b> The formula for the area of a triangle is $A = \frac{1}{2}bh$ , where <i>b</i> represents the length of the base and <i>h</i>	
<b>10.</b> The formula $F - E + V = 2$ relates the number of faces <i>F</i> , edges <i>E</i> , and vertices <i>V</i> , in any convex		represents the height. <b>a</b> . Solve the formula $A = \frac{1}{2}bb$ for b	$b = \frac{2A}{h}$
polyhedron. a. Solve the formula $F - F + V = 2$ for $F$	F = 2 + E - V	<b>b.</b> If a triangle has an area of $192 \text{ mm}^2$ , and the	
<ul> <li>b. How many faces does a polyhedron with</li> </ul>	10	height measures 12 mm, what is the measure of the base?	32 mm
20 vertices and 30 edges have?	12		
Copyright © by Holt, Rinehart and Winston. 35	Holt Algebra 1	Copyright © by Hukk Risehart and Winston. 36	Holt Algebra 1
Esson         Practice C           2-5         Solving for a Variable           Answer each of the following.         1. The formula P = 2l + 2w relates the perimeter P of a rectangle to its length l and with w. Solve this formula for w.         2. The for an other perimeter P of a rectangle to its length l and with w. Solve this formula for w.	formula $a = \frac{V_f - V_i}{t}$ is used to find ject's acceleration given initial	LESSON         Reteach           253         Solving for a Variable           Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations bei variable you are solving for, and then use inverse operations.	nula. The process is ing performed on the
Esson       Practice C         2-5       Solving for a Variable         Answer each of the following.       1. The formula $P = 2l + 2w$ relates the perimeter P of a rectangle to its length l and width w. Solve this formula for w.       2. The formula for w.	formula $a = \frac{V_r - V_i}{t}$ is used to find ject's acceleration given initial ty $v_i$ , final velocity $v_r$ , and time $t$ . this formula for $v_r$ .	Reteach           Zool         Solving for a Variable           Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations bei variable you are solving for, and then use inverse operations.           Operations         Solve using Immulti-step equations.           A = Iw         • w is multiplied by I.         • Divide bot	nula. The process is ing performed on the verse Operations th sides by <i>I</i> .
Utesson       Practice C         255       Solving for a Variable         Answer each of the following.       1. The formula $P = 2l + 2w$ relates the perimeter P of a rectangle to its length l and width w. Solve this formula for w.       2. The formula $P = 2k$ $w = \frac{P - 2l}{2}$ $w = \frac{P - 2l}{2}$	formula $a = \frac{v_r - v_i}{t}$ is used to find ject's acceleration given initial ty $v_r$ , final velocity $v_r$ , and time $t$ . this formula for $v_r$ $v_f = at + v_i$	Reteach         2-5       Solving for a Variable         Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations be variable you are solving for, and then use inverse operations.         Image: the solution of the s	nula. The process is ing performed on the verse Operations th sides by <i>I</i> .
Esson       Practice C         2-5       Solving for a Variable         Answer each of the following.       1. The formula $P = 2l + 2w$ relates the perimeter $P$ of a rectangle to its length $l$ and width $w$ . Solve this formula for $w$ .       2. The fa an ob veloci Solve $w = \frac{P - 2l}{2}$	formula $a = \frac{v_r - v_i}{t}$ is used to find ject's acceleration given initial ty $v_i$ , final velocity $v_r$ , and time $t$ . this formula for $v_r$ . $v_f = at + v_i$	Operations         Solve using Image           A = lw         • w is multiplied by l.         • Divide bot           Solve for w.         • w is multiplied by 2.         • Add -2/1 to	nula. The process is ing performed on the verse Operations th sides by <i>l.</i> o both sides. de both sides by 2.
<b>Practice C Solving for a Variable</b> Answer each of the following.         1. The formula $P = 2l + 2w$ relates the perimeter $P$ of a rectangle to its length $l$ and width $w$ . Solve this formula for $w$ .       2. The for an obvious velocity of the variable indicated. $w = \frac{P - 2l}{2}$ Solve each literal equation for the variable indicated.         3. $-3f = g$ for $f$ 4. $12 = a + 5b$ for $a$	formula $a = \frac{v_r - v_i}{t}$ is used to find jects acceleration given initial ty $v_r$ , final velocity $v_r$ , and time $t$ . this formula for $v_r$ . $v_f = at + v_i$ 5. $3x - 7y = z$ for $x$	Reteach <b>Reteach</b> Solving for a Variable         Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations be variable you are solving for, and then use inverse operations. $A = lw$ Operations       Solve using Im $A = lw$ • w is multiplied by <i>l</i> .       • Divide bot         Solve for w.       • w is multiplied by 2.       • Add -2/1t         Solve for w.       • Then 2/ is added.       • Then divide         The formula $A = \frac{1}{2}bh$ relates the area A of a triangle       The formula $A = \frac{1}{2}bh$	nula. The process is ing performed on the verse Operations th sides by <i>I</i> . o both sides. Je both sides by 2.
<b>ESSON Practice C</b> <b>255</b> <i>Solving for a Variable</i> Answer each of the following. 1. The formula $P = 2l + 2w$ relates the perimeter <i>P</i> of a rectangle to its length <i>l</i> and width <i>w</i> . Solve this formula for <i>w</i> . $w = \frac{P - 2l}{2}$ Solve each literal equation for the variable indicated. 3. $-3f = g$ for $f$ $f = \frac{g}{-3}$ a = 12 - 5b	formula $a = \frac{v_r - v_i}{t}$ is used to find ject's acceleration given initial ty $v_i$ , final velocity $v_r$ , and time $t$ . this formula for $v_r$ $v_f = at + v_i$ 5. $3x - 7y = z$ for $x$ $x = \frac{z + 7y}{3}$	Reteach         Solving for a Variable         Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations be variable you are solving for, and then use inverse operations.	nula. The process is ing performed on the verse Operations th sides by <i>l</i> . o both sides. de both sides by 2.
<b>EASON</b> <b>Practice C</b> <b>2-5</b> <b>Solving for a Variable</b> <b>Answer each of the following.</b> 1. The formula $P = 2l + 2w$ relates the perimeter <i>P</i> of a rectangle to its length <i>l</i> and width <i>w</i> . Solve this formula for <i>w</i> . $\frac{w = \frac{P - 2l}{2}}{2}$ <b>Solve each literal equation for the variable indicated.</b> 3. $-3f = g$ for $f$ 4. $12 = a + 5b$ for $a$ $\frac{f = \frac{g}{-3}}{2}$ <b>a = 12 - 5b</b> 6. $5h - g = jk$ for $h$ $h = \frac{jk + g}{2}$	bormula $a = \frac{v_r - v_i}{t}$ is used to find ject's acceleration given initial ty $v_r$ , final velocity $v_r$ , and time $t$ . this formula for $v_r$ . $v_f = at + v_i$ 5. $3x - 7y = z$ for $x$ $x = \frac{z + 7y}{3}$ 8. $\frac{m+3}{n} = p$ for $n$ $p = \frac{m+3}{2}$	Reteach         Solving for a Variable         Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations beivariable you are solving for, and then use inverse operations.	nula. The process is ing performed on the verse Operations th sides by <i>I</i> . o both sides. de both sides by 2. e order of the inverse erations is the order of prations in reverse.
Practice C2-5Solving for a VariableAnswer each of the following.1. The formula $P = 2l + 2w$ relates the perimeter $P$ of a rectangle to its length $l$ and width $w$ . Solve this formula for $w$ .2. The for an ob veloci Solve $w = \frac{P - 2l}{2}$ Solve each literal equation for the variable indicated.3. $-3f = g$ for $f$ 4. $12 = a + 5b$ for a $f = \frac{g}{-3}$ $a = 12 - 5b$ 6. $5h - g = jk$ for $h$ $r = s(t - 9)$	bormula $a = \frac{v_r - v_i}{t}$ is used to find ijects acceleration given initial ty $v_i$ , final velocity $v_r$ , and time $t$ . this formula for $v_r$ $v_f = at + v_i$ 5. $3x - 7y = z$ for $x$ $x = \frac{z + 7y}{3}$ 8. $\frac{m+3}{n} = p$ for $n$ $n = \frac{m+3}{p}$	Reteach         Solving for a Variable         Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations beivariable you are solving for, and then use inverse operations.	nula. The process is ing performed on the verse Operations th sides by <i>I</i> . o both sides. de both sides by 2. de order of the inverse erations is the order of rations in reverse.
LESSONPractice C22-5Solving for a VariableAnswer each of the following.1. The formula $P = 2l + 2w$ relates the perimeter $P$ of a rectangle to its length $l$ and width $w$ . Solve this formula for $w$ .2. The for and width $w$ . $w = \frac{P - 2l}{2}$ Solve each literal equation for the variable indicated.3. $-3f = g$ for $f$ 4. $12 = a + 5b$ for $a$ $f = \frac{g}{-3}$ $a = 12 - 5b$ 6. $5h - g = jk$ for $h$ $7. \frac{f}{g} = t - 9$ for $r$ $h = \frac{jk + g}{5}$ $r = s(t - 9)$ Answer each of the following.	bormula $a = \frac{v_r - v_i}{t}$ is used to find ject's acceleration given initial ty $v_i$ , final velocity $v_r$ , and time $t$ . this formula for $v_r$ $v_r = at + v_i$ 5. $3x - 7y = z$ for $x$ $x = \frac{z + 7y}{3}$ 8. $\frac{m+3}{n} = p$ for $n$ $n = \frac{m+3}{p}$	Reteach         Solving for a Variable         Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations be variable you are solving for, and then use inverse operations.	nula. The process is ing performed on the verse Operations th sides by <i>l</i> . o both sides. de both sides by 2.
<b>ESSON Practice C</b> <b>255</b> Solving for a Variable Answer each of the following. 1. The formula $P = 2l + 2w$ relates the perimeter <i>P</i> of a rectangle to its length <i>l</i> and width <i>w</i> . Solve this formula for <i>w</i> . <b>2.</b> The for and width <i>w</i> . Solve this formula for <i>w</i> . <b>3.</b> $-3f = g$ for <i>f</i> <b>4.</b> $12 = a + 5b$ for <i>a</i> $f = \frac{g}{-3}$ <b>5.</b> $5h - g = jk$ for <i>h</i> $h = \frac{jk + g}{5}$ <b>5.</b> The formula $F = ma$ relates the force <i>F</i> exerted on an object, to the object's mass <i>m</i> , and acceleration <i>a</i> .	brmula $a = \frac{v_r - v_i}{t}$ is used to find ject's acceleration given initial ty $v_i$ , final velocity $v_r$ , and time $t$ . this formula for $v_r$ $v_r = at + v_i$ 5. $3x - 7y = z$ for $x$ $x = \frac{z + 7y}{3}$ 8. $\frac{m+3}{n} = p$ for $n$ $n = \frac{m+3}{p}$	Reteach         Solving for a Variable         Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations be variable you are solving for, and then use inverse operations.	nula. The process is ing performed on the verse Operations th sides by <i>l</i> . o both sides. de both sides by 2. e order of the inverse rations is the order of prations in reverse.
<b>Practice C</b> <b>2-5</b> <b>Solving for a Variable</b> <b>Answer each of the following.</b> 1. The formula $P = 2l + 2w$ relates the perimeter <i>P</i> of a rectangle to its length <i>l</i> and width <i>w</i> . Solve this formula for <i>w</i> . $w = \frac{P - 2l}{2}$ <b>Solve each literal equation for the variable indicated.</b> 3. $-3f = g$ for $f$ 4. $12 = a + 5b$ for a $\frac{f = \frac{g}{-3}}{a} = 12 - 5b$ 6. $5h - g = jk$ for <i>h</i> $h = \frac{jk + g}{5}$ <b>Answer each of the following.</b> 9. The formula $F = ma$ for <i>a</i> . a. Solve the formula $F = ma$ for <i>a</i> .	bormula $a = \frac{v_r - v_i}{t}$ is used to find ject's acceleration given initial ty $v_i$ , final velocity $v_r$ , and time $t$ . this formula for $v_r$ . $v_f = at + v_i$ 5. $3x - 7y = z$ for $x$ $x = \frac{z + 7y}{3}$ 8. $\frac{m+3}{n} = p$ for $n$ $n = \frac{m+3}{p}$ $a = \frac{F}{m}$	Reteach         Solving for a Variable         Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations beivariable you are solving for, and then use inverse operations.         Image: the step equation of the second step equations. Find the operations beivariable you are solving for, and then use inverse operations.       Solve using Image: the second step equations. Find the operations beivariable you are solving for, and then use inverse operations.         Image: the second step equations of the second step equations.       Solve using Image: the second step equations.       Alternation second step equations.         Image: the second step equations of the second step equations.       Image: the second step equations.       Image: the second step equations.       Image: the second step equations.         Image: the second step equations of the second step equations.       Image: the second step equations.       Image: the second step equations.       Image: the second step equations.         Image: the second step equation step equation step equations.       Image: the second step equations.       Image: the second step equation step equations.       Image: the second step equations.         Image: the second step equation step equations.       Image: the second step equation st	nula. The process is ing performed on the verse Operations th sides by <i>I</i> . o both sides. de both sides by 2.
<b>ESSON Practice C</b> <b>255</b> Solving for a Variable Answer each of the following. 1. The formula $P = 2l + 2w$ relates the perimeter <i>P</i> of a rectangle to its length <i>l</i> and width <i>w</i> . Solve this formula for <i>w</i> . <b>2.</b> The for and width <i>w</i> . Solve this formula for <i>w</i> . <b>3.</b> $-3f = g$ for <i>f</i> <b>4.</b> $12 = a + 5b$ for <i>a</i> <b>5.</b> $f = \frac{g}{-3}$ <b>6.</b> $5h - g = jk$ for <i>h</i> <b>7.</b> $\frac{f}{s} = t - 9$ for <i>r</i> <b>6.</b> $5h - g = jk$ for <i>h</i> <b>7.</b> $\frac{f}{s} = t - 9$ for <i>r</i> <b>7.</b> $\frac{f}{s} = t - 9$ for <i>r</i> <b>7.</b> $\frac{f}{s} = s(t - 9)$ <b>Answer each of the following.</b> <b>9.</b> The formula $F = ma$ relates the force <i>F</i> exerted on an object, to the object's mass <i>m</i> , and acceleration <i>a</i> . <b>a.</b> Solve the formula $F = ma$ for <i>a</i> . <b>b.</b> Suppose a shot-putter exerts a force of 123.5 kg · m/s <sup>2</sup> on a shot that has a mass of <b>6.</b> 5kg. What is the rate of acceleration of the shot? The answer will have $m = m^{2}$	bormula $a = \frac{v_r - v_i}{t}$ is used to find ject's acceleration given initial ty $v_i$ , final velocity $v_r$ , and time $t$ . this formula for $v_r$ $v_r = at + v_i$ 5. $3x - 7y = z$ for $x$ $x = \frac{z + 7y}{3}$ 8. $\frac{m+3}{n} = p$ for $n$ $n = \frac{m+3}{p}$ $a = \frac{F}{m}$ 19 m/s <sup>2</sup>	Reteach         Solving for a Variable         Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations be variable you are solving for, and then use inverse operations.         Meteach         Solving for a Variable         Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations be variable you are solving for, and then use inverse operations.         Meteach         Operations       Solve using Im         Meteach         Variable by 1       Divide by 1         Operations       Solve using Im         Numerical A = 1/2       Multiplied by 2.       • Add -21/tt         Solve for w.       • Then 2/ is added.         The formula $A = \frac{1}{2}bh$ relates the area $A$ of a triangle to its base $b$ and height $h$ . Solve the formula for $b$ .       A = $\frac{1}{2}bh$ b is multiplied by $\frac{1}{2}$ .         Class base $b$ and height $h$ . Solve the formula for $b$ . $A = \frac{1}{h}$ Divide both sides by $\frac{1}{2}$ .         2A = bh       b Simplify.         Solve for the indicated va	nula. The process is ing performed on the verse Operations th sides by <i>l</i> . o both sides. de both sides by 2. e order of the inverse prations is the order of prations in reverse. $P = \frac{KT}{V} \text{ for } K$ $K = \frac{VP}{T}$
<b>ESSON Practice C</b> <b>255 Solving for a Variable</b> <b>Answer each of the following.</b> 1. The formula $P = 2l + 2w$ relates the perimeter <i>P</i> of a rectangle to its length <i>l</i> and width <i>w</i> . Solve this formula for <i>w</i> . <b>and width <i>w</i>. Solve this formula for <i>w</i>. <b>and width <i>w</i>. Solve this formula for <i>w</i>. <b>b and width <i>w</i>. <b>b and width <i>w</i>. <b>b and width <i>w</i>. <b>c and width w</b>. <b>c and width <i>w</i>. <b>c and width w</b>. <b>c and </b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b>	brmula $a = \frac{v_r - v_i}{t}$ is used to find ject's acceleration given initial ty $v_i$ , final velocity $v_r$ , and time $t$ . this formula for $v_r$ . $v_r = at + v_i$ 5. $3x - 7y = z$ for $x$ $x = \frac{z + 7y}{3}$ 8. $\frac{m + 3}{n} = p$ for $n$ $n = \frac{m + 3}{p}$ $a = \frac{F}{m}$ 19 m/s <sup>2</sup>	Reteach         Solving for a Variable         Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations be variable you are solving for, and then use inverse operations.	nula. The process is ing performed on the verse Operations th sides by <i>l</i> . o both sides. de both sides by 2. e order of the inverse prations is the order of prations in reverse. $P = \frac{KT}{V} \text{ for } K$ $K = \frac{VP}{T}$
<b>Practice C</b> <b>255</b> Solving for a Variable Answer each of the following. 1. The formula $P = 2l + 2w$ relates the perimeter <i>P</i> of a rectangle to its length <i>l</i> and width <i>w</i> . Solve this formula for <i>w</i> . $w = \frac{P - 2l}{2}$ Solve each literal equation for the variable indicated. 3. $-3f = g$ for $f$ 4. $12 = a + 5b$ for a $\frac{f = \frac{g}{-3}}{a} = \frac{a + 2 - 5b}{a}$ 6. $5h - g = jk$ for <i>h</i> $h = \frac{jk + g}{5}$ $r = s(t - 9)$ Answer each of the following. 9. The formula $F = ma$ relates the force <i>F</i> exerted on an object, to the object's mass <i>m</i> , and acceleration <i>a</i> . a. Solve the formula $F = ma$ for <i>a</i> . b. Suppose a shot-putter exerts a force of $123.5 \text{ kg} \cdot \text{m/s}^2$ on a shot that has a mass of $6.5 \text{ kg} \cdot \text{m/s}^2$ on a shot that thas a mass of $6.5 \text{ kg} \cdot \text{m/s}^2$ on a shot that that an anso of $6.5 \text{ kg} \cdot \text{m/s}^2$ on a shot that that an anso of $6.5 \text{ kg} \cdot \text{m/s}^2$ on a shot that that an anso of $6.5 \text{ kg} \cdot \text{m/s}^2$ on a shot that that an anso of $6.5 \text{ kg} \cdot \text{m/s}^2$ on a shot that that an anso of $6.5 \text{ kg} \cdot \text{m/s}^2$ on a principal amount of money <i>P</i> , when the money is invested at an annual percentage rate <i>r</i> for <i>t</i> years.	bormula $a = \frac{v_r - v_i}{t}$ is used to find jects acceleration given initial ty v, final velocity v, and time t. this formula for v <sub>r</sub> . $v_r = at + v_i$ 5. $3x - 7y = z$ for x $x = \frac{z + 7y}{3}$ 8. $\frac{m+3}{n} = p$ for n $n = \frac{m+3}{p}$ $a = \frac{F}{m}$ 19 m/s <sup>2</sup>	Reteach         Solving for a Variable         Solving for a Variable         Solving for a Variable         Solving for a Variable         Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations beivariable you are solving for, and then use inverse operations.	nula. The process is ing performed on the verse Operations th sides by <i>l</i> . o both sides. de both sides by 2. e order of the inverse prations is the order of reations in reverse. $P = \frac{KT}{V} \text{ for } K$ $K = \frac{VP}{T}$ $W = \frac{3V}{lh}$
<b>ESSON Practice C</b> <b>255</b> Solving for a Variable Answer each of the following. 1. The formula $P = 2l + 2w$ relates the perimeter <i>P</i> of a rectangle to its length <i>l</i> and width <i>w</i> . Solve this formula for <i>w</i> . $w = \frac{P - 2l}{2}$ Solve each literal equation for the variable indicated. 3. $-3f = g$ for <i>f</i> 4. $12 = a + 5b$ for a $f = \frac{g}{-3}$ a = 12 - 5b 6. $5h - g = jk$ for <i>h</i> $h = \frac{jk + g}{5}$ 7. $\frac{f}{s} = t - 9$ for <i>r</i> $h = \frac{g}{-3}$ Answer each of the following. 9. The formula $F = ma$ relates the force <i>F</i> exerted on an object, to the object's mass <i>m</i> , and acceleration <i>a</i> . a. Solve the formula $F = ma$ for <i>a</i> . b. Suppose a shotputter exerts a force of $123.5$ kg $\cdot$ m/s <sup>2</sup> on a shot that has a mass of 6.5 kg. What is the rate of acceleration of the shot? (The answer will be in m/s <sup>2</sup> .) 10. The formula $I = Prt$ can be used to determine the interest <i>l</i> that is earned on a principal amount of money <i>P</i> , when the money is invested at an annual percentage rate <i>r</i> for <i>t</i> years. a. Solve the formula $I = Prt$ for <i>t</i> .	brmula $a = \frac{v_r - v_i}{t}$ is used to find ject's acceleration given initial ty $v_i$ , final velocity $v_r$ , and time $t$ . this formula for $v_r$ . $v_r = at + v_i$ 5. $3x - 7y = z$ for $x$ $x = \frac{z + 7y}{3}$ 8. $\frac{m+3}{n} = p$ for $n$ $n = \frac{m+3}{p}$ $a = \frac{F}{m}$ 19 m/s <sup>2</sup> $t = \frac{I}{Pr}$	Reteach         Solving for a Variable         Solving for a Variable         Solving for a Variable         Solving for a Variable         Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations be variable you are solving for, and then use inverse operations.	nula. The process is ing performed on the verse Operations th sides by <i>l</i> . o both sides. de both sides by 2. e order of the inverse prations is the order of prations in reverse. $P = \frac{KT}{V} \text{ for } K$ $K = \frac{VP}{T}$ $W = \frac{3V}{lh}$ 12 in.
Practice CPractice C2-55Solving for a VariableAnswer each of the following.1. The formula $P = 2I + 2w$ relates the perimeter P of a rectangle to its length I and width w. Solve this formula for w.2. The for an ob velocities Solve $w = \frac{P - 2I}{2}$ Solve each literal equation for the variable indicated.3. $-3f = g$ for f4. $12 = a + 5b$ for a $f = \frac{g}{-3}$ $a = 12 - 5b$ 6. $5h - g = jk$ for h $T. \frac{f}{5} = t - 9$ for r $h = \frac{jk + g}{5}$ $r = s(t - 9)$ Answer each of the following.9. The formula $F = ma$ relates the force $F$ exerted on an object, to the object's mass $m$ , and acceleration $a$ .a. Solve the formula $F = ma$ for $a$ b. Suppose a shot-putter exerts a force of $1235$ fog · ms <sup>2</sup> on a shot that has a mass of $6.5$ kg. What is the rate of acceleration of the shot? (The answer will be in m/s <sup>2</sup> .)10. The formula $I = Prt$ can be used to determine the interest / that is earned on a principal amount of money $P$ , when the money is invested at an annual percentage rate $r$ for $t$ years.a. Solve the formula $I = Prt$ for $t$ b. If a couple invests \$5000 in an account that earns a $3\%$ interest rate, how long will they need to lowest it to earn \$1200 in interest? (Hint: Convert the interest rate to a decimal.)	brmula $a = \frac{v_r - v_i}{t}$ is used to find jects acceleration given initial ty $v_r$ , final velocity $v_r$ , and time $t$ . this formula for $v_r$ . <b>5.</b> $3x - 7y = z$ for $x$ $x = \frac{z + 7y}{3}$ <b>8.</b> $\frac{m+3}{n} = p$ for $n$ $n = \frac{m+3}{p}$ <b>19</b> m/s <sup>2</sup> <b>t</b> = $\frac{l}{Pr}$ <b>8</b> years	Reteach         Solving for a Variable         Solving for a Variable         Solving for a Variable         Solving for a variable in a formula can make it easier to use that form similar to that of solving multi-step equations. Find the operations be variable you are solving for, and then use inverse operations.	nula. The process is ing performed on the verse Operations th sides by <i>l</i> . o both sides. be both sides by 2. e order of the inverse prations is the order of rrations in reverse. $P = \frac{KT}{V} \text{ for } K$ $K = \frac{VP}{T}$ $W = \frac{3V}{lh}$ 12 in.

LESSON Reteach					LESSON Challenge		
Solving for a Va	<b>ariable</b> c	ontinued			A Formula of Interest	t	
Any equation with two or more Solve $x = \frac{y - z}{10}$ for y. $x = \frac{y - z}{10}$ y	e variables can b - z is divided b	be solved for any g y 10.	jiven variable.		When you put your money in a savings : simple interest. Let P represent the dolla principal), let r represent the interest rate of years. The amount of interest you ear formula: I = Prt.	account, the bank may pay you ar amount of your deposit (the te, and let <i>t</i> represent the number rn, <i>I</i> , is given by the <i>simple interest</i>	
$10(x) = 10\left(\frac{y-z}{10}\right)$ M 10x = y-z	fultiply both side	s by 10. om v. Add z to both	n sides		Note that banks typically use percents to Percent means "per hundred," so an inter- should use $r = -\frac{5}{2}$ or 0.05	o describe their interest rates. erest rate of 5% means that you	
+z $+z$					Use the simple interest formula to so	live the following problems:	1 - 275
10x + z = y					<b>1.</b> If $P = 2500$ , $r = 0.03$ , and $t = 5$ , where	hat is /?	7 - 373
Solve $a = b + \frac{c}{d}$ for $c$ .					<b>2.</b> If <i>r</i> = 0.025, <i>t</i> = 3, and <i>I</i> = 150, wh	nat is P?	P = 2000
$a = b + \frac{c}{d}$					<b>3.</b> If <i>P</i> = 500, <i>r</i> = 0.06, and <i>I</i> = 150, v	what is t?	t = 5 years
-b -b A	dd –b to each s	ide.			<b>4.</b> If <i>P</i> = 3000, <i>t</i> = 4, and <i>I</i> = 384, wh	nat is /?	= 0.032 or 3.2%
$a-b=\frac{c}{d}$					<ol> <li>Kevin is making a deposit of \$1800</li> <li>6.5% simple interest (r = 0.065). If I bank for 3 years, how much interest</li> </ol>	at his local bank. The bank pays Kevin leaves his deposit at the t will he earn?	\$351
$d(a - b) = \left(\frac{b}{d}\right)d \qquad M$ $d(a - b) = c \qquad S$	fultiply both side. Simplify.	s by d.			<ol> <li>Cecelia made a deposit of \$600 at a (r = 0.04). How long should she lea order to earn \$72 in interest?</li> </ol>	a bank paying 4% simple interest ave her deposit at the bank in	3 years
State the first inverse operati	ion to perform v	when solving for	the		<ol> <li>Darryl opened an account at a bank (r = 0.055). After 6 years, he had ea the amount of his original deposit?</li> </ol>	k which paid 5.5% simple interest arned \$726 in interest. What was	\$2200
6. $y = x + z$ ; for z f + g to trace		add – x to multinly bot	both sides h sides by 2		<ol> <li>Sophia deposited \$150 at a savings simple interest. If she earned \$27 in way the interest rate?</li> </ol>	s and loan association paying n interest after 6 years, what	0.03 or 3%
<b>7.</b> $\frac{1}{2} = n$ ; for <i>g</i> <b>8.</b> $t = -3r + \frac{s}{5}$ ; for <i>s</i>		add 3 <i>r</i> to 1	both sides		<ul> <li>9. Nathan made a deposit of \$650 at a (r = 0.038). If he leaves his deposit</li> </ul>	a bank paying 3.8% simple interest t at the bank for 10 years, how much	\$947
Solve for the indicated variable $9. \ 3ab = c$ ; for $a$	<b>10.</b> $y = x + \frac{z}{3}$	; for <i>z</i>	<b>11.</b> $\frac{m+3}{n} = p;$	for <i>m</i>	<ul> <li>interest will he earn?</li> <li>10. Susie made a deposit of \$980 at a of interest (r = 0.07). How long should</li> </ul>	credit union paying 7% simple d she leave her deposit at the	
$a = \frac{c}{3b}$	<i>z</i> =	3(v - x)	<i>m</i> = 1	pn – 3	credit union in order to earn \$343 in 11. Guillermo deposited \$1350 at a bar	n interest?	5 years
Copyright © by Holt, Rinehart and Winston.		39		Holt Algebra 1	earned \$109.35 in 3 years, what was Copyright © by Holt, Rinehart and Winston.	40	Holt Algebra 1
	vilig				LESSON Reading Strategie	es	
<b>2-5</b> Solving for a Va Use the table below, which sh medal winners, to answer que the nearest tenth.	<i>ariable</i> hows some trac estions 1–4. Ro	k and field gold und all answers	to		LESSON Reading Strategie 25 Use a Concept Map Use the concept map below to help you	es understand literal equations.	
<ul> <li>2-5 Solving for a V.</li> <li>Use the table below, which simedal winners, to answer quithe nearest tenth.</li> <li>1. Solve the formula d = rt for the formula d = rt for the nearest tenth.</li> </ul>	fariable hows some trac estions 1–4. Ro	k and field gold and all answers	to Summer Olympi	ics	LESSON Reading Strategie 25 Use a Concept Map Use the concept map below to help you Definition	es	Facts
<b>245</b> Solving for a V. Use the table below, which simedal winners, to answer quithe nearest tenth. 1. Solve the formula $d = rt$ for $r = \frac{d}{s}$	fariable hows some trac estions 1–4. Ro	ck and field gold und all answers 2000 Gold Medal	to Summer Olympi Race	ics	LESSON         Reading Strategie           255         Use a Concept Map           Use the concept map below to help you           Definition           Literal equations are	es understand literal equations.	Facts eral equations.
<b>245</b> Solving for a V. Use the table below, which si medal winners, to answer que the nearest tenth. 1. Solve the formula $d = rt$ fo $r = \frac{d}{t}$	<b>ariable</b> hows some trac estions 1–4. Ro	ck and field gold und all answers 2000 Gold Medal Winner M. Greene.	to Summer Olympi Race	ics Time (s) 9.87	Definition           Literal equations are equations with two or more variables.	es i understand literal equations. Formulas are lite Literal equations same way as eq	Facts eral equations. s are solved the juations, by
<b>2-5</b> Solving for a V. Use the table below, which slimedal winners, to answer que the nearest tenth. 1. Solve the formula $d = rt$ fo $r = \frac{d}{t}$ 2. Find Johnson's average spimeters per second.	hows some trac estions 1–4. Ro or r.	ck and field gold und all answers Gold Medal Winner M. Greene, USA	to Summer Olympi Race 100 m	ics Time (s) 9.87	Definition           Literal equations are equations with two or more variables.	es understand literal equations. Formulas are lite Literal equations same way as eq using inverse of	Facts eral equations. s are solved the guations, by perations.
<b>22-5</b> Solving for a V. Use the table below, which sl medal winners, to answer que the nearest tenth. 1. Solve the formula $d = rt$ fo $r = \frac{d}{t}$ 2. Find Johnson's average sp meters per second. 9.1 m/s	in rable hows some trace estions 1–4. Ro	A and field gold und all answers 2000 Gold Medal Winner M. Greene, USA K. Kenteris, Greece	to Summer Olympi Race 100 m 200 m	ics Time (s) 9.87 20.09	LESSON       Reading Strategie         25       Use a Concept Map         Use the concept map below to help you         Definition         Literal equations are equations with two or more variables.         Examples	es understand literal equations. Formulas are lite Literal equations same way as eo using inverse op Equations	Facts eral equations. s are solved the uations, by perations.
<b>2-5</b> Solving for a V. Use the table below, which si medal winners, to answer qu the nearest tenth. 1. Solve the formula $d = rt$ fo $r = \frac{d}{t}$ 2. Find Johnson's average sp meters per second. <u>9.1 m/s</u> 3. Find Garcia's average spee	ariable fariable hows some trac estions 1–4. Ro or r. weed in	2000 Gold Medal Winner M. Greene, USA K. Kenteris, Greece M. Johnson, USA	to Summer Olympi Race 100 m 200 m 400 m	ics Time (s) 9.87 20.09 43.84	LESSON       Reading Strategie         25       Use a Concept Map         Use the concept map below to help you         Definition         Literal equations are equations with two or more variables.         Examples         d = rt	es understand literal equations. Formulas are lite Literal equations same way as eq using inverse op Equations Nor -4x	Facts eral equations. s are solved the juations, by perations.
<b>2-5</b> Solving for a V. Use the table below, which sl medal winners, to answer qu the nearest tenth. 1. Solve the formula $d = rt$ fo $r = \frac{d}{t}$ 2. Find Johnson's average sp meters per second. 9.1 m/s 3. Find Garcia's average spee per second.	ed in meters	2000 Gold Medal Winner M. Greene, USA K. Kenteris, Greece M. Johnson, USA A. Garcia,	to Summer Olympi Race 100 m 200 m 400 m 110 m hurdles	ics Time (s) 9.87 20.09 43.84 13.00	LESSON       Reading Strategie         25       Use a Concept Map         Use the concept map below to help you         Definition         Literal equations are equations with two or more variables.         Examples         d = rt         A = $\frac{1}{2}bh$	ES understand literal equations. Formulas are lite Literal equations using inverse of Equations Nor -4x 10 =	Facts eral equations. s are solved the quations, by perations. <b>h Examples</b> = 20 $\frac{1}{2}(\gamma - 6)$
<b>22-5</b> Solving for a V. Use the table below, which slimedal winners, to answer quithe nearest tenth. 1. Solve the formula $d = rt$ for $r = \frac{d}{t}$ 2. Find Johnson's average spemeters per second. <u>9.1 m/s</u> 3. Find Garcia's average speet per second. <u>8.5 m/s</u>	iariable fariable hows some trac estions 1–4. Ro or r.  weed in  ed in meters	Control Contro	to Summer Olympi Race 100 m 200 m 400 m 110 m hurdles	ics Time (s) 9.87 20.09 43.84 13.00	Esson       Reading Strategie         25       Use a Concept Map         Use the concept map below to help you         Definition         Literal equations are equations with two or more variables.         Examples $d = rt$ $A = \frac{1}{2}bh$ $m + n = 3p$	ES understand literal equations. Formulas are lite Literal equations using inverse op using inverse op Equations Nor -4x 10 = n + 5	Facts eral equations. s are solved the juations, by berations. <b>h Examples</b> = 20 $\frac{1}{3}(y - 6)$ 5 = 2n - 14
<b>22-5</b> Solving for a V. Use the table below, which slimedal winners, to answer quithe nearest tenth. 1. Solve the formula $d = rt$ for $r = \frac{d}{t}$ 2. Find Johnson's average sperent second. 9.1 m/s 3. Find Garcia's average specent second. 8.5 m/s 4. The world record of 19.32 the 200-meter race was set	iariable fariable hows some trac estions 1–4. Ro or r. beed in eed in ed in meters seconds in t by Michael	Content of the second s	to Summer Olympi Race 100 m 200 m 400 m 110 m hurdles	ics Time (s) 9.87 20.09 43.84 13.00	Essew       Reading Strategie         255       Use a Concept Map         Use the concept map below to help you         Definition         Literal equations are equations with two or more variables.         Examples $d = rt$ $A = \frac{1}{2}bh$ $m + n = 3p$	es understand literal equations. Formulas are lite Literal equations same way as eo using inverse op Equations Nor -4x 10 = n + 5	Facts eral equations. s are solved the quations, by perations. $Examples$ $= 20$ $\frac{1}{3}(y - 6)$ $5 = 2n - 14$
<b>22-5</b> Solving for a V. Use the table below, which si medal winners, to answer qu the nearest tenth. 1. Solve the formula $d = rt$ fo $r = \frac{d}{t}$ 2. Find Johnson's average sper meters per second. <u>9.1 m/s</u> 3. Find Garcia's average spec per second. <u>8.5 m/s</u> 4. The world record of 19.32 the 200-meter race was se Johnson in 1996. Find the between Johnson's average	Ariable     fariable     faviable     hows some trac     estions 1–4. Ro     or r.     weed in     ed in meters     seconds in     t by Michael     difference     es speed and	Content of the second s	to Summer Olympi Race 100 m 200 m 400 m 110 m hurdles	ics Time (s) 9.87 20.09 43.84 13.00	Essew       Reading Strategie         253       Use a Concept Map         Use the concept map below to help you         Definition         Literal equations are equations with two or more variables.         Examples $d = rt$ $A = \frac{1}{2}bh$ $m + n = 3p$ Answer each question.	es understand literal equations. Formulas are lite Literal equations same way as eq using inverse op -4x 10 = n + 5	Facts eral equations. s are solved the quations, by perations. <b>Examples</b> = 20 $\frac{1}{3}(y-6)$ 5 = 2n - 14
<b>225</b> Solving for a V. Use the table below, which slimedal winners, to answer quithe nearest tenth. 1. Solve the formula $d = rt$ for $r = \frac{d}{t}$ 2. Find Johnson's average spemeters per second. <u>9.1 m/s</u> 3. Find Garcia's average speeter second. <u>8.5 m/s</u> 4. The world record of 19.32 the 200-meter race was seter Johnson in 1996. Find the between Johnson's average Kenteris' average speed.	ariable fariable hows some tracestions 1–4. Ro or r. weed in ed in meters seconds in t by Michael difference le speed and	Constant State Sta	to Summer Olympi Race 100 m 200 m 400 m 110 m hurdles 4 m/s	ics Time (s) 9.87 20.09 43.84 13.00	Esson       Reading Strategie         25       Use a Concept Map         Use the concept map below to help you         Definition         Literal equations are equations with two or more variables.         Examples $d = rt$ $A = \frac{1}{2}bh$ $m + n = 3p$ Answer each question.         1. Give your own example of a literal e         Possibl	es understand literal equations. Formulas are lite Literal equations using inverse op using inverse op Equations Nor -4x 10 = n + 5 equation. Is answer: $3x + 2y = 9$	Facts eral equations. s are solved the quations, by perations. <b>h Examples</b> = 20 $\frac{1}{3}(y - 6)$ 5 = 2n - 14
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<b>225</b> Solving for a V. Use the table below, which sl medal winners, to answer qu the nearest tenth. 1. Solve the formula $d = rt$ fo $r = \frac{d}{t}$ 2. Find Johnson's average sp meters per second. <u>9.1 m/s</u> 3. Find Garcia's average speed per second. <u>8.5 m/s</u> 4. The world record of 19.32 the 200-meter race was se Johnson in 1996. Find the between Johnson's average Kenteris' average speed. Select the best answer. 5. The cost to mail a letter in States is 0.34 for the first \$0.23 for each additional o C = 0.34 + 0.23(z - 1) for $A z = \frac{C - 0.34}{0.23}$ B z = C - 0.56 7. Degrees Celsius and degre Fahrenheit are related by th $C = \frac{5}{9}(F - 32)$ . Solve for $F$	transformed and the United ounce. Solve r z.	Ex and field gold und all answers 2000 Constraints Gold Medal Winner M. Greene, USA K. Kenteris, Greece M. Johnson, USA A. Garcia, Cuba 0. 6. The formul the volume ( $\mathbf{F} = \frac{3V}{h}$ G $B = 3V$ 8. The cost of device is g where W is time in hoo per kilowal F $W = 100$ G $W = \frac{C}{100}$ C $W = \frac{100}{100}$	to Summer Olympi Race 100 m 200 m 400 m 110 m hurdles 4 m/s 4 m/s 4 m/s 4 m/s 4 m/s 4 m/s 4 m/s 4 m/s 5 do a pyramid. So 4 m/s 5 do a pyramid. So 4 m/s 5 do a pyramid. So 5 do a pyramid. So 6 do a pyramid. So 7 H B = 1 7 h J B = 1 6 do portaing an ellivity the formula 5 the power in wars, and c is the of 1 the out of the formula of the of the out of the ou	ics Time (s) 9.87 20.09 43.84 13.00 is how to find olve for B. = $3Vh$ = $3Vh$ = $3Vh$ = $3V + h$ ectrical $Ual C = \frac{Wc}{1000}$ atts, t is the cost in cents W.	Reading Strategie         Lisson         Lisson         Use the concept Map         Use the concept Map         Use the concept map below to help you         Definition         Literal equations are equations with two or more variables.         Examples         d = rt         A = $\frac{1}{2}bh$ m + n = $3p$ Answer each question.         1. Give your own example of a literal equation         The equation         2. Why is $n + 5 = 2n - 14$ given as a <u>The equation</u> 3. Is an equation with four different var <u>Ves, because</u> 4. Describe how to solve $d = rt$ for $t$ .         Div         5. Solve the literal equation $3t + 8 = t$ 6. The formula for the volume of a rect         a. Solve this formula for $h$ .	es understand literal equations. Formulas are litt Literal equations equations Nor -4x: 10 = n + 5 equation. le answer: $3x + 2y = 9$ a non-example? contains only one variable, <i>rn</i> riables a literal equation? Why? b for t. $t = \frac{b-8}{3}$ tangular prism is $V = lwh$ .	Facts eral equations. s are solved the juations, by berations. = 20 $\frac{1}{3}(y - 6)$ 5 = 2n - 14
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