

Date Class

Solve each system by elimination.

1.
$$\begin{cases} 2x - y = 20 \\ 3x + 2y = -19 \end{cases}$$
2.
$$\begin{cases} 3x + 2y = 10 \\ 3x - 2y = 14 \end{cases}$$

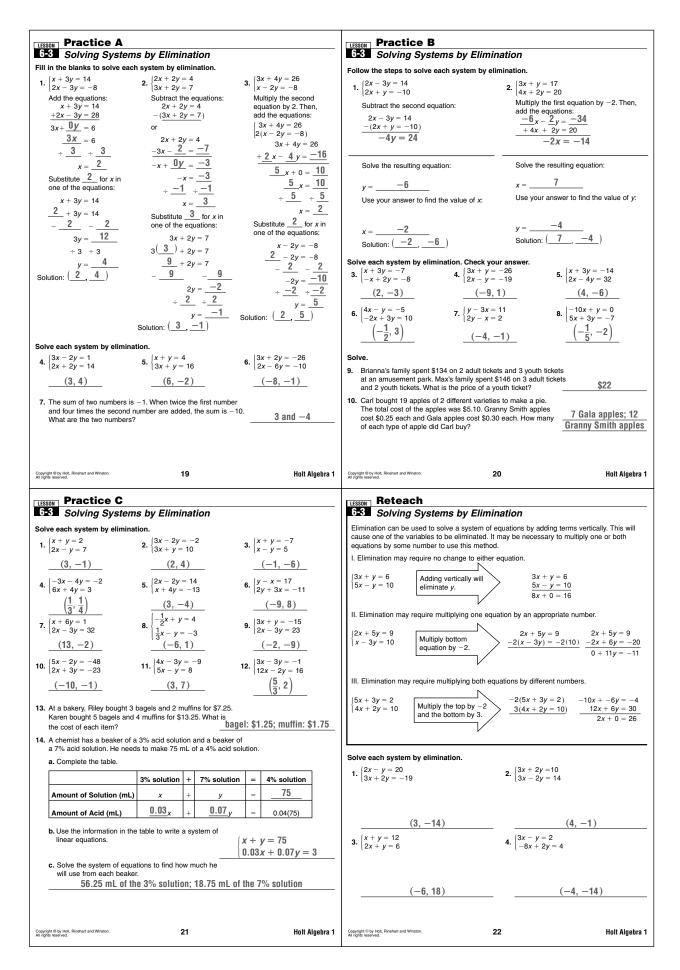
Name

3.
$$\begin{cases} x + y = 12 \\ 2x + y = 6 \end{cases}$$
4.
$$\begin{cases} 3x - y = 2 \\ -8x + 2y = 4 \end{cases}$$

LESSON Reteach 6-3 Solving Systems by Elimination (continued) A system of equations can be solved by graphing, substitution, or elimination. • Use graphing if both equations are solved for y, or if you want an estimate of the solution. • Use substitution if either equation is solved for a variable, or has a variable with a coefficient of 1 or -1. Use elimination if both equations have the same variable with the same or opposite coefficients. It may be necessary to manipulate your equations to get them in any of the three forms above. Solve $\begin{cases} y = 3 - x < -1 \end{cases}$ One equation Solve $\begin{cases} -2x - y = -5\\ 3x + y = -1 \end{cases}$ is solved for a 2x - y = 6variable. Use The equations have -2x - y = -53 - xsubstitution. the same variable $\overline{2x-y}=6$ 3x + y = -1with opposite Substitute x + 2 for y. 2x - (3 - x) = 6x + 0 = -6coefficients. Use 3x - 3 = 6elimination. x = -6+3 +3 Substitute x = -6 into one of the original 3x = 9equations to find the value of y. *x* = 3 3x + y = -13(-6) + y = -1Substitute x = 3 into one of the original equations to find the value of y. -18 + v = -1v = 3 - x+18v = 3 - 3y = 17The solution is (3, 0). v = 0The solution is (-6, 17).

Solve each system by any method.

5.
$$\begin{cases} y = x + 3 \\ -2x + y = -4 \end{cases}$$
6.
$$\begin{cases} 4x + y = 10 \\ -2x - y = 4 \end{cases}$$
7.
$$\begin{cases} 2x + y = 8 \\ 3x + 5y = 5 \end{cases}$$



LESSON Reteach			
6-3 Solving Systems by Elimination (continued)		6-3 Solving Systems by Elimination	
A system of equations can be solved by graphing, substitution, or elimination.		The elimination method can also be used for a system of three equations in three unknowns.	
Use graphing if both equations are so	olved for y, or if you want an estimate	Three camp leaders purchased equipment for a	camping trip.
of the solution.		Max bought 10 sleeping bags, 2 tents, and 1 can	
 Use substitution if either equation is s with a coefficient of 1 or -1. 	solved for a variable, or has a variable	Carlos bought 5 sleeping bags, 4 tents, and 1 ca Amy bought 9 sleeping bags, 6 tents, and 6 cans	
		If they made their purchases at the same store, h	
 Use elimination if both equations hav coefficients. 	e the same variable with the same or opposite	(10) + 0) + - 005	
	uations to get them in any of the three forms	1. Write the 3 equations: $\begin{cases} 10x + 2y + z = 885\\ 5x + 4y + z = 80 \end{cases}$	65
above.			
Solve $y = 3 - x$ One equation	$c_{abva} \left[-2x - y \right] = -5$	9x + 6y + 6z = 7	1410
Solve $\begin{cases} y-3-x\\ 2x-y=6 \end{cases}$ is solved for a variable. Use			
3-x substitution.	-2x - y = -5 The equations have the same variable	2. Subtract the second equation from the first.	5x - 2y = 20
2x - y = 6 Substitute $x + 2$ for y	3x + y = -1 with opposite		
2x - (3 - x) = 6 3x - 3 = 6	x + 0 = -6 coefficients. Use	3. Multiply the second equation by -6	
+3 +3	x = 0	and add the second and third equations.	-21x - 18y = -3780
$\frac{13}{3x=9}$	Substitute $x = -6$ into one of the original equations to find the value of y.		
		4. The equations is shown 0 and 0 form a linear	
<i>x</i> = 3	3x + y = -1	 The equations in steps 2 and 3 form a linear system in two variables. Solve this system for x 	x = 60
Substitute $x = 3$ into one of the original equations to find the value of <i>y</i> .	3(-6) + y = -1		
$\gamma = 3 - x$	-18 + y = -1		
y = 3 - 3 $y = 3 - 3$	+18 +18	5. Substitute the value of x into the first two	2y + z = 285
	<i>y</i> = 17	equations. Write the resulting system.	4y + z = 565
y = 0 The solution is (3, 0).	The solution is $(-6, 17)$.		
Solve each system by any method.		6. Solve the system in problem 5 for y and z.	<i>y</i> = 140, <i>z</i> = 5
	u = 10 (0		
5. $\begin{cases} y = x + 3 \\ -2x + y = -4 \end{cases}$ 6. $\begin{cases} 4x + y \\ -2x - 4 \end{cases}$	7 = 10 - $y = 4$ 7. $\begin{vmatrix} 2x + y = 8 \\ 3x + 5y = 5 \end{vmatrix}$		sleeping bags: \$60; tents: \$140;
((7. Write the cost of each item.	bug repellant: \$5
(7, 10)	(7, -18) (5, -2)		
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LESSON Problem Solving		LESSON Reading Strategies	
Image: Solving Solving Systems by Elin	nination	Reading Strategies 6-3 <i>Connecting Concepts</i>	
	nination	6-3 Connecting Concepts	
Solving Systems by Elin Write the correct answer. Mr. Nguyen bought a package of 3	2. Jayce bought 2 bath towels and returned	6-3 Connecting Concepts When solving systems of linear equations using elin	
G-3 Solving Systems by Elin Write the correct answer. 1. Mr. Nguyen bought a package of 3 chicken legs and a package of 7 chicker	 Jayce bought 2 bath towels and returned 3 hand towels. His sister Jayna bought 3 	G-3 Connecting Concepts When solving systems of linear equations using elin need to multiply one or both equations by a factor in coefficients for a variable. This process is very simil	n order to get the same ar to getting a common
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