Name		Date	_ Class
Additional Practi	ce		Investigation 2
••••••••••••••••		• • • • • • • • • • • • • • • • • • • •	It's In the System
1. Solve each of the follow	ving systems of equations.		
a. $y = 3x - 2$	b. $y = 7x + 4$	c. $y = 22x + 4$	
y = 2x + 3	y = 9x - 6	y = 14x + 28	

d. $y = -x + 9$	e. $y = 2x + 6$	f. $y = -5x + 8$
y = 2x + 30	y = x + 3	y = -2x - 7

Name	Date	Class
Additional Practice (continued)		Investigation 2
		It's In the System
2. Rewrite the following equations in equivalent $y = n$	ix + b form:	

c.
$$-6x - 2y - 3 = 0$$
 d. $-4x + y = 0$

e.
$$4x - 4y + 2 = 0$$
 f. $150x + 50y - 25 = 0$

3. Rewrite each of the equations in Exercise 2 in equivalent x = ny + c form.

Name	Date	Class
Additional Practice (co	ntinued)	Investigation 2
		It's In the System
4. Solve each of the following sys	tems of equations by substitution.	
a. $3x + 2y = 14$	b. $4x - 2y = 24$	
y = x + 2	y = x - 5	

c.
$$-3x + 51 = 8y$$

 $y = -6x$
d. $y = 4x - 2$
 $3x + 2y = -4$

e.
$$x = 5y - 26$$

 $6x + y = -1$
f. $7x - 2y = 18$
 $x = y$

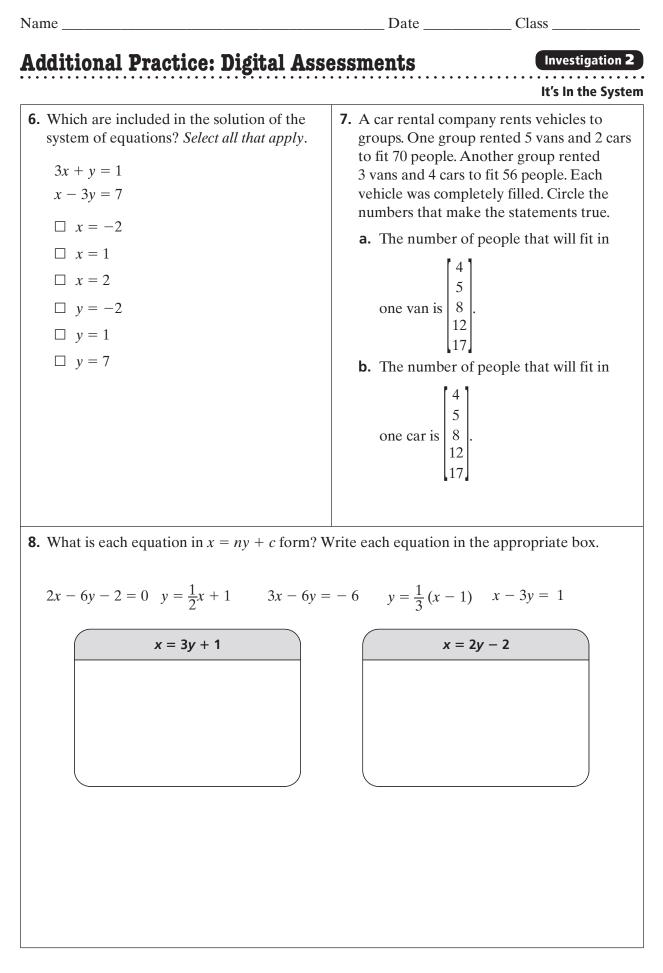
Name	Date	Class
Additional Practice (c	ontinued)	Investigation 2
		It's In the System
5. Solve each of the following sy	stems of equations by combination.	
a. $2x - 4y = 10$	b. $7x + 10y = 6$	
-2x + 6y = -4	7x - 10y = 8	

c.
$$6x - 7y = -4$$

 $-4x - 7y = 26$
d. $x + y = 3$
 $x - y = -9$

e.
$$-5x - 6y = 16$$

 $-5x + 8y = 4$
f. $3x - 2y = 12$
 $-3x + 4y = -8$



Skill: Substitution Method for Linear Systems

Investigation 2

It's In the System

Solve each system of equations using substitution.

1. $y = x$	2. $y = x + 4$
y = -x + 2	y = 3x

3. x = -2y + 1

$$x = y - 5 \qquad \qquad x = y + 50$$

4. x + 2y = 200

Skill: Substitution Method for Linear Systems (cont.)

Solve each system of equations using substitution.

5. $3x - 2y = 0$	6. $2x + 4y = -6$
x + 2y = -8	x - 3y = 7

7. $5x - 3y = -4$	
5x + 3y = -6	

8.	3x - y =	= 4
	2x + y =	= 16

Skill: Combination Method for Linear Systems

4. 2x + 5y = -1

x + 2y = 0

It's In the System

Solve each system of equations by combination.

1. $x + 2y = 7$	2. $3x + y = 20$
3x - 2y = -3	x + y = 12

3. $5x + 7y = 77$	
5x + 3y = 53	
-	

77

Copyright © Pearson Education, Inc., or its affiliates. All Rights Reserved.

-

5... 1 7...

Investigation 2

Skill: Combination Method for Linear Systems (cont.)

Investigation 2 It's In the System

Solve each system of equations by combination.

5. $3x + 6y = 6$	6. $2x + y = 3$
2x - 3y = 4	-2x + y = 1

7.	4x - y = 6	
	3x + 2y = 21	

8. 2x - 3y = -113x + 2y = 29

Copyright O Pearson Education, Inc., or its affiliates. All Rights Reserved.