



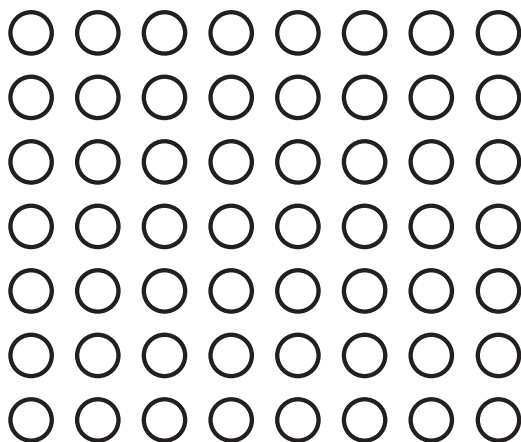
Cumulative Review

1. The set of products including 3, 6, 9, and 12 is written in both the _____s column and _____s row.
2. 3 consecutive multiples of 4 that are greater than 12 are _____, _____, and _____.
3. The soccer coach is planning to go to a tournament. There are 20 soccer players and 4 seats in each car. Complete the number line to figure out how many cars are needed to go to the tournament. _____

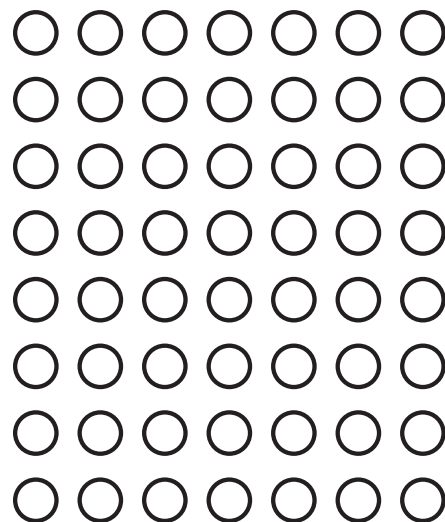


4. Are these two expressions equal? _____

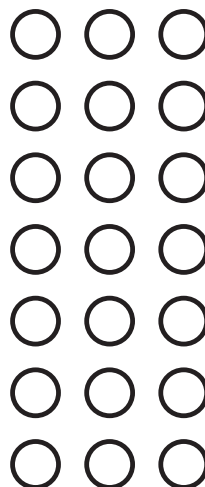
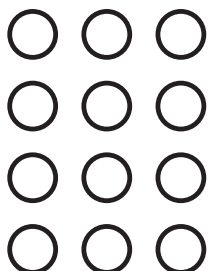
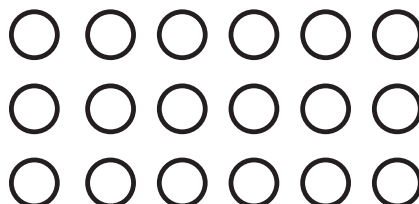
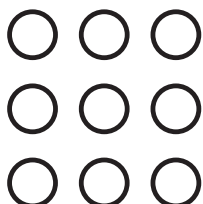
$$7 \times 8$$



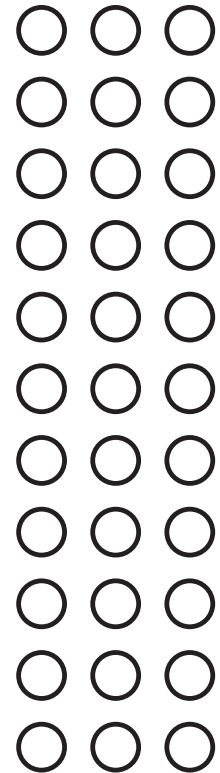
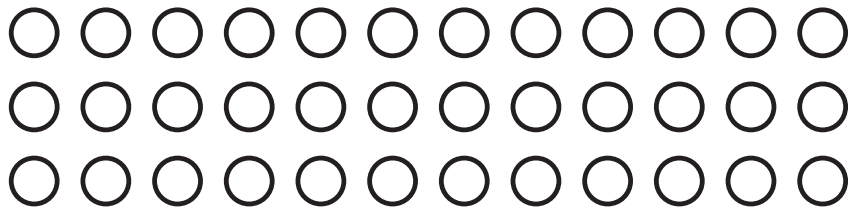
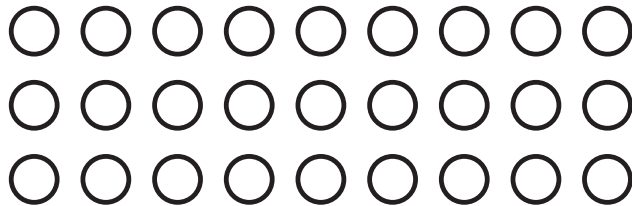
$$8 \times 7$$



3s Facts A



3s Facts B



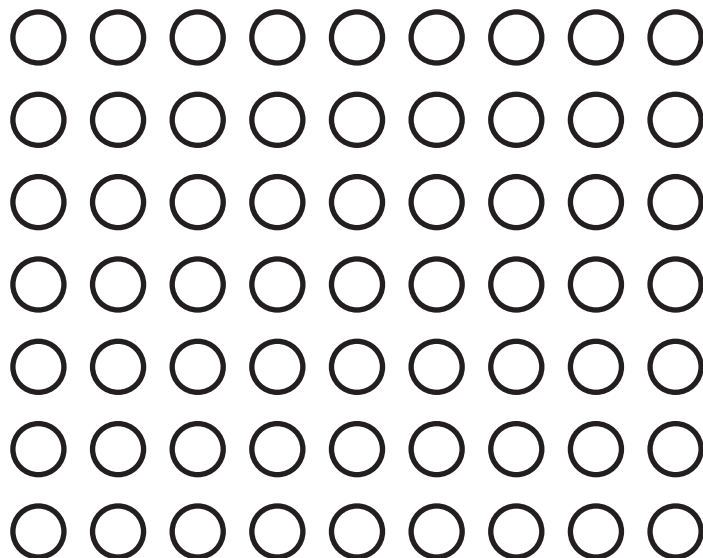
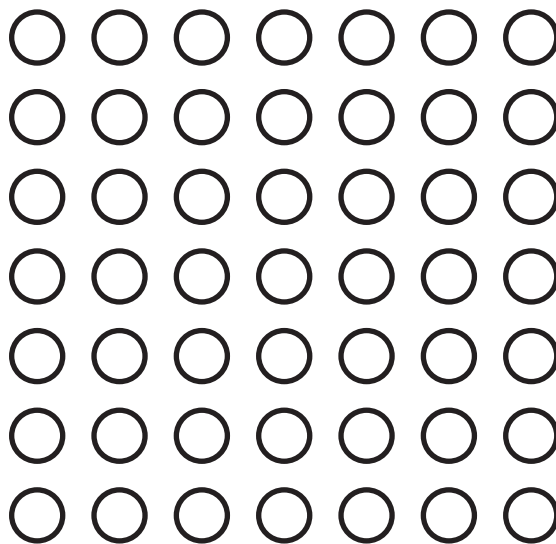
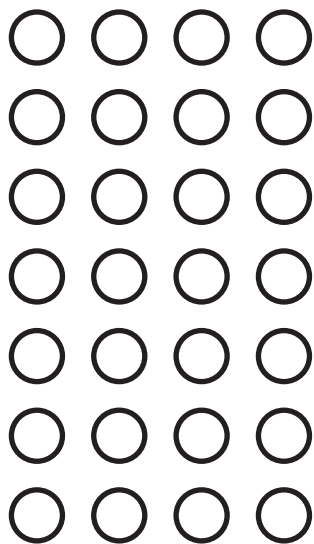
Taking Apart 3 into 1 and 2

X	1	2	1s + 2s	3
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

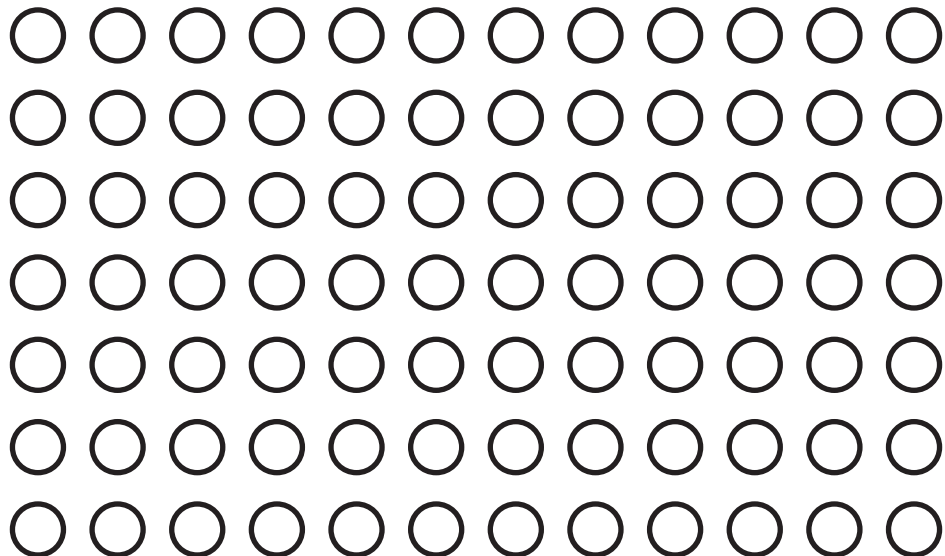
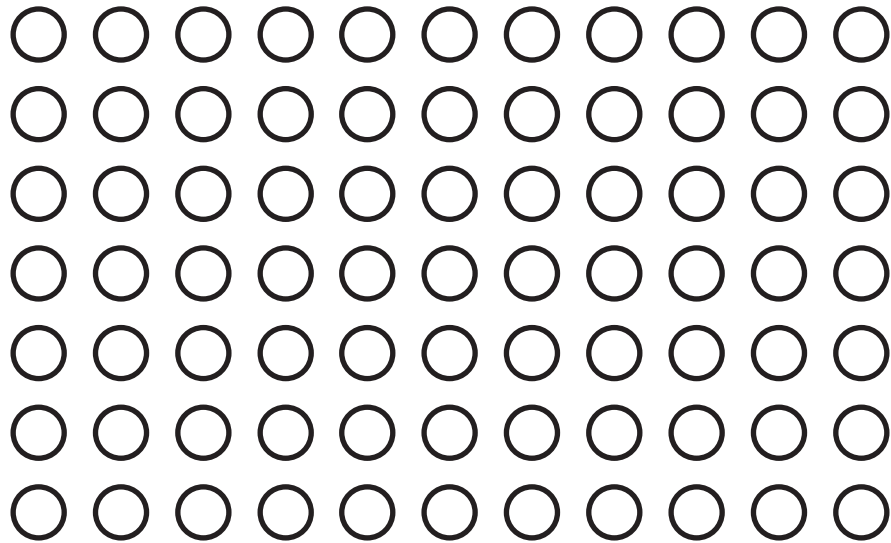
3s and 7s Table

	x	1	2	3	4	5	6	7	8	9	10	11	12
	1												
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												
	11												
	12												

7s Facts A



7s Facts B

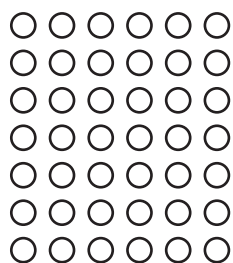


Taking Apart 7 into 2 and 5

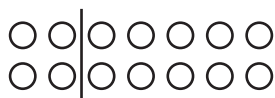
X	2	5	$2s + 5s$	7
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

Practice 1

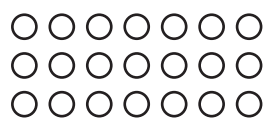
1. Divide the array with a line to represent taking apart an unknown fact to find 7×6 , and then solve the fact. _____



2. What multiplication fact is shown by the array below?



3. Draw an array and a line to represent taking apart an unknown fact to find 3×7 , and then solve the fact. _____



4. Take apart and solve the unknown fact to find 12×3 . Use the graphic organizer below if needed.

	1	2	1s + 2s	3
12				

Practice 2

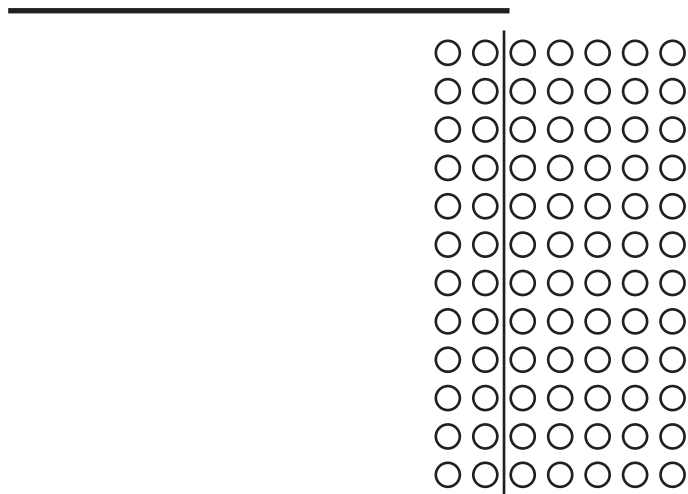
Part 1: Complete the 3s and 7s rows and columns on the multiplication table.

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2		4	5	6		8	9	10	11	12
2	2	4		8	10	12		16	18	20	22	24
3												
4	4	8			20					40	44	
5	5	10		20	25	30		40	45	50	55	60
6	6	12			30					60	66	
7												
8	8	16			40					80	88	
9	9	18			45					90	99	
10	10	20		40	50	60		80	90	100	110	120
11	11	22		44	55	66		88	99	110	121	132
12	12	24			60					120	132	4

Practice 2 (contd.)

Part 2: Answer each question.

1. What multiplication fact is shown by the array below?



2. Divide the array model with a line to represent taking apart an unknown fact to find 3×11 , and then solve the fact. _____



3. Draw an array and a line to represent taking apart an unknown fact to find 10×7 , and then solve the fact.

Name: _____

Independent Practice

Part 1: Solve each fact.

$7 \times 7 = \underline{\quad}$

$5 \times 7 = \underline{\quad}$

$3 \times 12 = \underline{\quad}$

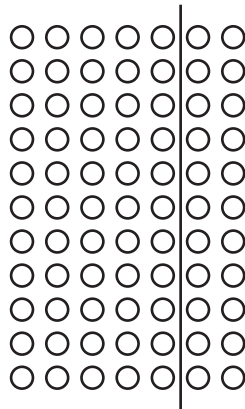
$9 \times 7 = \underline{\quad}$

$9 \times 3 = \underline{\quad}$

$8 \times 7 = \underline{\quad}$

Part 2: Answer each question.

1. What multiplication fact is shown by the array below?



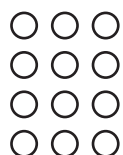
2. Draw an array and a line to represent taking apart an unknown fact to find 3×3 , and then solve the fact. _____



Name: _____

Independent Practice (cont.)

3. Divide the array model to represent taking apart an unknown fact to find 4×3 , and then solve the fact. _____



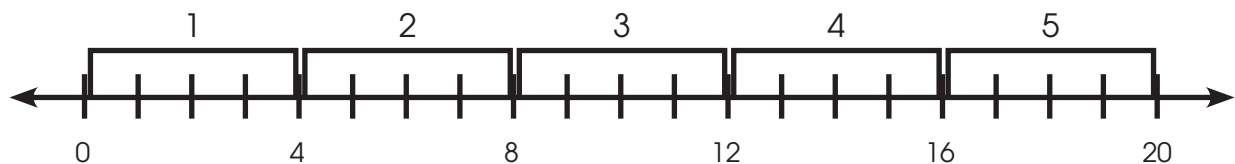
4. Take apart and solve the unknown fact to find 7×4 . Use the graphic organizer below if needed.

x	2	5	$2s + 5s$	7
4				



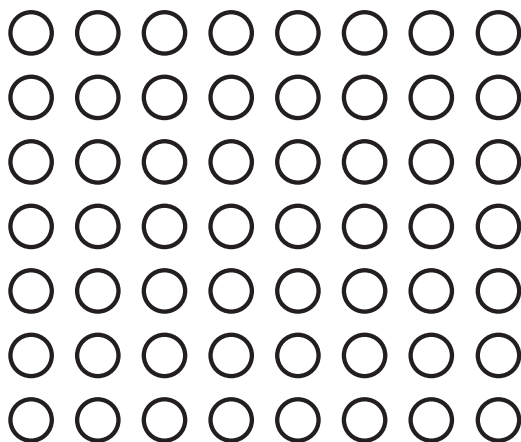
Answer Key: Cumulative Review

1. The set of products including 3, 6, 9, and 12 is written in both the 3s column and 3s row.
2. 3 consecutive multiples of 4 that are greater than 12 are 16 , 24 , and 28 .
3. The soccer coach is planning to go to a tournament. There are 20 soccer players and 4 seats in each car. Complete the number line to figure out how many cars are needed to go to the tournament. 5

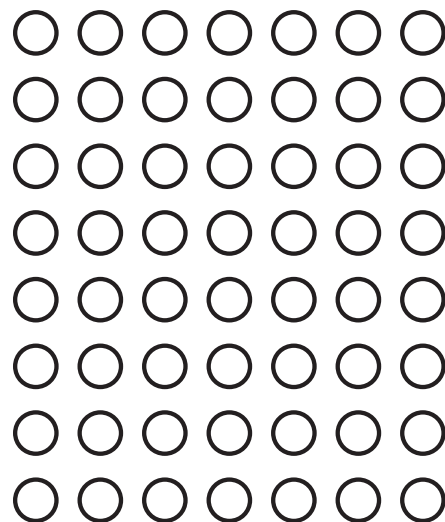


4. Are these two expressions equal? yes

$$7 \times 8$$



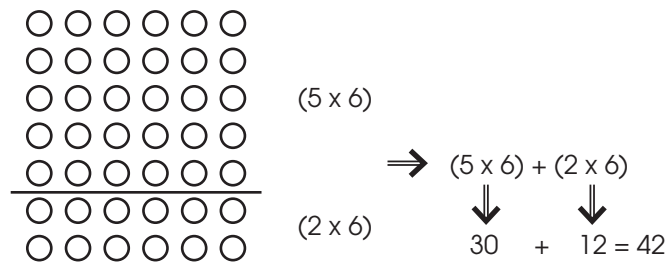
$$8 \times 7$$





Answer Key: Practice 1

1. Divide the array with a line to represent taking apart an unknown fact to find 7×6 , and then solve the fact. $7 \times 6 = (5 \times 6) + (2 \times 6) = 42$

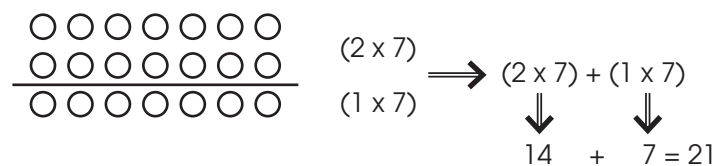


2. What multiplication fact is shown by the array below?

$(2 \times 2) + (2 \times 5) = 2 \times 7 = 14$



3. Draw an array and a line to represent taking apart an unknown fact to find 3×7 , and then solve the fact. $3 \times 7 = (2 \times 7) + (1 \times 7) = 21$



4. Take apart and solve the unknown fact to find 12×3 . Use the graphic organizer below if needed.

X	1	2	1s + 2s	3
12	12	24	12 + 24	36



Answer Key: Practice 2

Part 1: Complete the 3s and 7s rows and columns on the multiplication table.

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12		20		28			40	44	
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18		30		42			60	66	
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24		40		56			80	88	
9	9	18	27		45		63			90	99	
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36		60		84			120	132	4

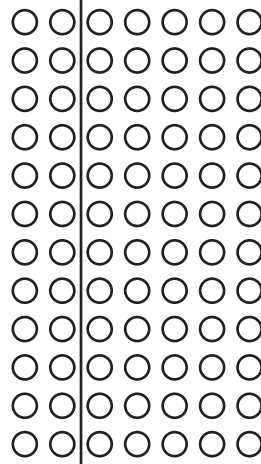


Answer Key: Practice 2 (cont.)

Part 2: Answer each question.

1. What multiplication fact is shown by the array below?

$$(12 \times 2) + (12 \times 5) = 12 \times 7 = 84$$



2. Divide the array model with a line to represent taking apart an unknown fact to find 3×11 , and then solve the fact. $(2 \times 11) + (1 \times 11) = 3 \times 11 = 33$

$$\begin{array}{c}
 \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \\
 \hline
 \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \\
 \hline
 \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc
 \end{array}
 \begin{array}{l}
 (2 \times 11) \\
 (1 \times 11)
 \end{array}
 \Rightarrow
 \begin{array}{l}
 (2 \times 11) + (1 \times 11) \\
 \downarrow \quad \quad \downarrow \\
 22 + 11 = 33
 \end{array}$$

3. Draw an array and a line to represent taking apart an unknown fact to find 10×7 , and then solve the fact.

$$\begin{array}{c}
 \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \\
 \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \\
 \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \\
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 \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc
 \end{array}
 \begin{array}{l}
 (10 \times 5) \\
 (10 \times 2)
 \end{array}
 \Rightarrow
 \begin{array}{l}
 (10 \times 5) + (10 \times 2) \\
 \downarrow \quad \quad \downarrow \\
 50 + 20 = 70
 \end{array}$$



Answer Key: Independent Practice

Part 1: Solve each fact.

$$7 \times 7 = \underline{49}$$

$$5 \times 7 = \underline{35}$$

$$3 \times 12 = \underline{36}$$

$$9 \times 7 = \underline{63}$$

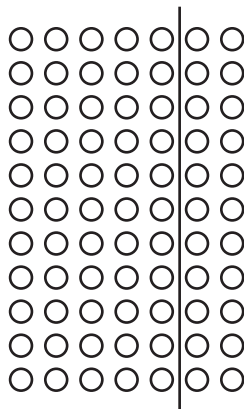
$$9 \times 3 = \underline{27}$$

$$8 \times 7 = \underline{56}$$

Part 2: Answer each question.

1. What multiplication fact is shown by the array below?

$$\underline{(11 \times 5) + (11 \times 2) = 11 \times 7 = 77}$$



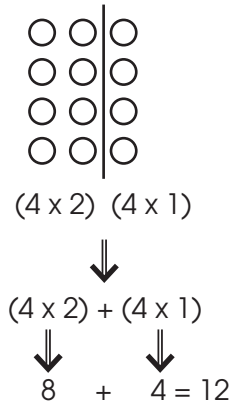
2. Draw an array and a line to represent taking apart an unknown fact to find 3×3 , and then solve the fact. $\underline{3 \times 3 = (2 \times 3) + (1 \times 3) = 9}$

$$\begin{array}{ccc} \begin{array}{ccc} \bigcirc & \bigcirc & \bigcirc \\ \bigcirc & \bigcirc & \bigcirc \\ \bigcirc & \bigcirc & \bigcirc \end{array} & \begin{array}{l} (2 \times 3) \\ (1 \times 3) \end{array} & \Rightarrow \begin{array}{l} (2 \times 3) + (1 \times 3) \\ \downarrow \quad \downarrow \\ 6 + 3 = 9 \end{array} \end{array}$$



Answer Key: Independent Practice (cont.)

3. Divide the array model to represent taking apart an unknown fact to find 4×3 , and then solve the fact. $4 \times 3 = (4 \times 2) + (4 \times 1) = 12$



4. Take apart and solve the unknown fact to find 7×4 . Use the graphic organizer below if needed.

X	2	5	$2s + 5s$	7
4	8	20	$8 + 20$	28