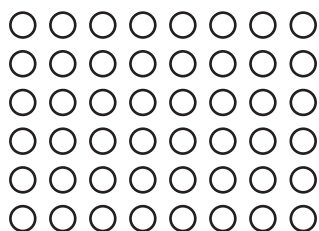


Cumulative Review

1. Use the doubling strategy and the graphic organizer below to find 4×8 .

X	4	Double 4	8
4			

2. Divide the array to model the doubling strategy for 6×8 .



3. Draw an array and a line to represent taking apart an unknown fact to find 7×9 .

4. 3 consecutive multiples of 3 that are greater than 6 are _____ , _____ ,
and _____ .

Blank Multiplication 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												

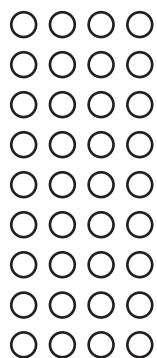
Taking Apart 9 into 4 and 5

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

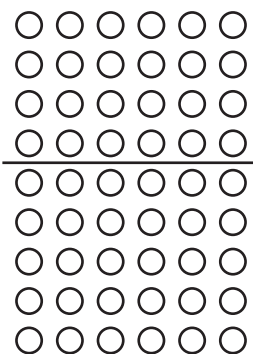


Practice 1

1. Divide the array to model the strategy for 9×4 , and then solve.



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 9×3 , and then solve.

Practice 1 (cont.)

4. Take apart the unknown fact to find 9×7 . Use the graphic organizer below if needed.

X	4	5	$4s + 5s$	9
7				



Practice 2

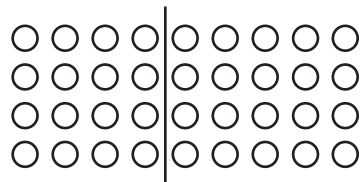
Part 1: Complete the 9s rows and columns on the multiplication table.

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8		10	11	12
2	2	4	6	8	10	12	14	16		20	22	24
3	3	6	9	12	15	18	21	24		30	33	36
4	4	8	12	16	20	24	28	32		40	44	48
5	5	10	15	20	25	30	35	40		50	55	60
6	6	12	18	24	30		42	48		60	66	
7	7	14	21	28	35	42	49	56		70	77	84
8	8	16	24	32	40	48	56	64		80	88	96
9												
10	10	20	30	40	50	60	70	80		100	110	120
11	11	22	33	44	55	66	77	88		110	121	132
12	12	24	36	48	60		84	96		120	132	

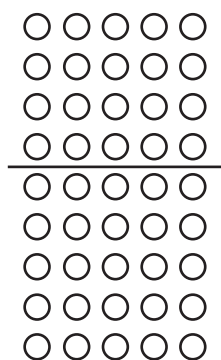
Practice 2 (cont.)

Part 2: Answer each question.

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



2. Divide the array to model the strategy for 9×5 , and then solve.



3. Draw an array and a line to represent taking apart an unknown fact to find 7×9 , and then solve.

Name: _____

Independent Practice

Part 1: Solve each fact.

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

$5 \times 9 = \underline{\quad}$

$9 \times 12 = \underline{\quad}$

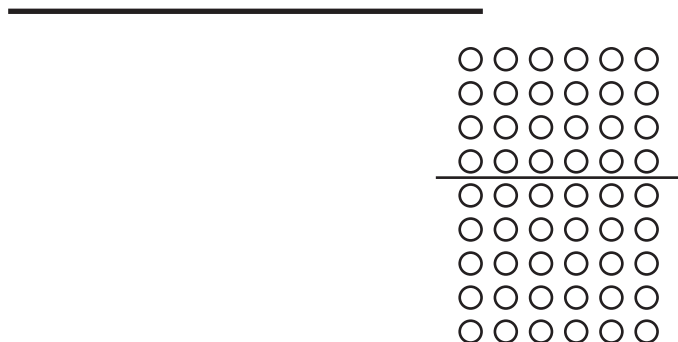
$9 \times 9 = \underline{\quad}$

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

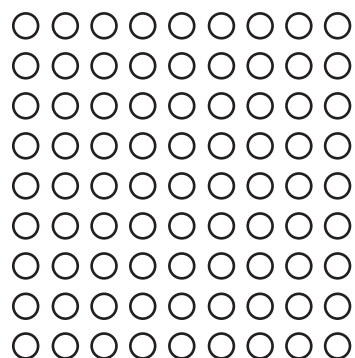
$8 \times 9 = \underline{\quad}$

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 9×9 , and then solve.



Independent Practice (cont.)

Part 2 (cont.)

3. Draw and divide an array to show the doubling strategy for 6×9 , and then solve. _____

4. Take apart and solve the unknown fact to find 9×12 . Use the graphic organizer below if needed.

X	4	5	$4s + 5s$	9
12				

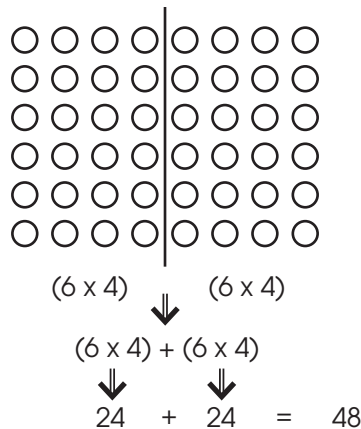


Answer Key: Cumulative Review

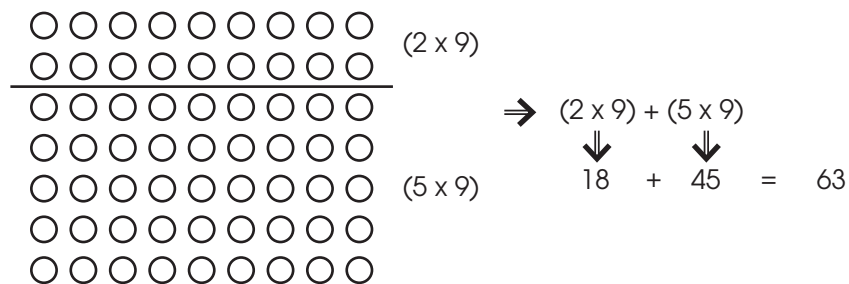
1. Use the doubling strategy and the graphic organizer below to find 4×8 .

X	4	Double 4	8
4	16	$16 + 16$	32

2. Divide the array to model the doubling strategy for 6×8 .



3. Draw an array and a line to represent taking apart an unknown fact to find 7×9 .

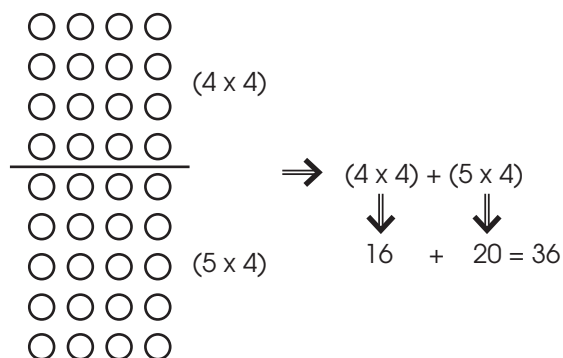


4. 3 consecutive multiples of 3 that are greater than 6 are 9 , 12 , and 15 . (Answers may vary)



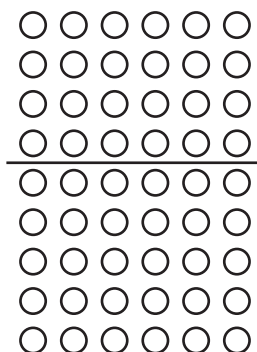
Answer Key: Practice 1

1. Divide the array to model the strategy for 9×4 , and then solve.

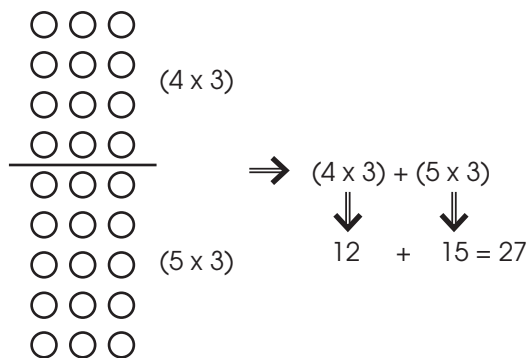


2. What multiplication fact is shown by the array below?

$(4 \times 6) + (5 \times 6) = 9 \times 6 = 54$



3. Draw an array and a line to represent taking apart an unknown fact to find 9×3 , and then solve.





Answer Key: Practice 1 (cont.)

4. Take apart the unknown fact to find 9×7 . Use the graphic organizer below if needed.

X	4	5	$4s + 5s$	9
7	28	35	$28 + 35$	63



Answer Key: Practice 2

Part 1: Complete the 9s rows and columns on the multiplication table.

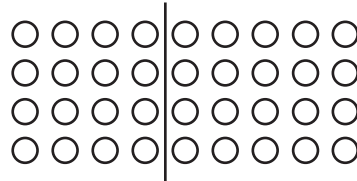
x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30		42	48	54	60	66	
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
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	48	60		84	96	108	120	132	



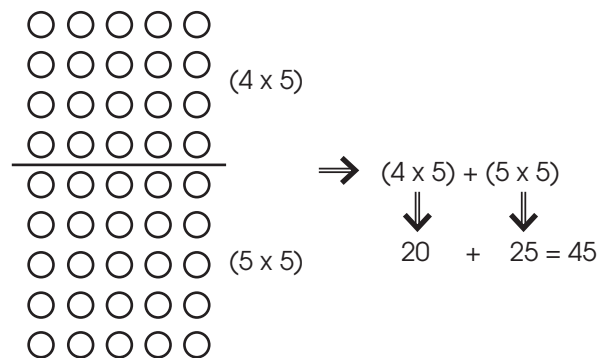
Answer Key: Practice 2 (cont.)

Part 2: Answer each question.

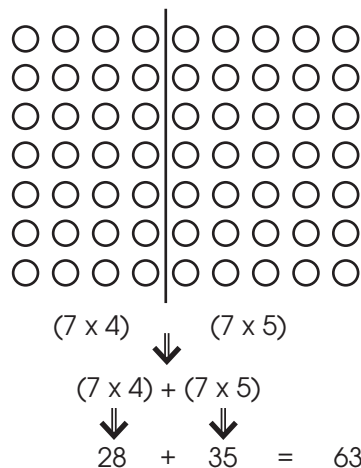
1. What multiplication fact is shown by the array below?
 $(4 \times 4) + (4 \times 5) = 4 \times 9 = 36$



2. Divide the array to model the strategy for 9×5 , and then solve.



3. Draw an array and a line to represent taking apart an unknown fact to find 7×9 , and then solve.





Answer Key: Independent Practice

Part 1: Solve each fact.

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

$$5 \times 9 = \underline{45}$$

$$9 \times 12 = \underline{108}$$

$$9 \times 9 = \underline{81}$$

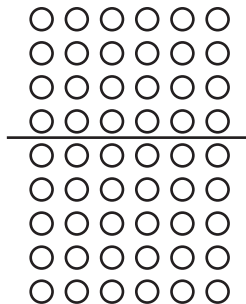
$$9 \times 3 = \underline{27}$$

$$8 \times 9 = \underline{72}$$

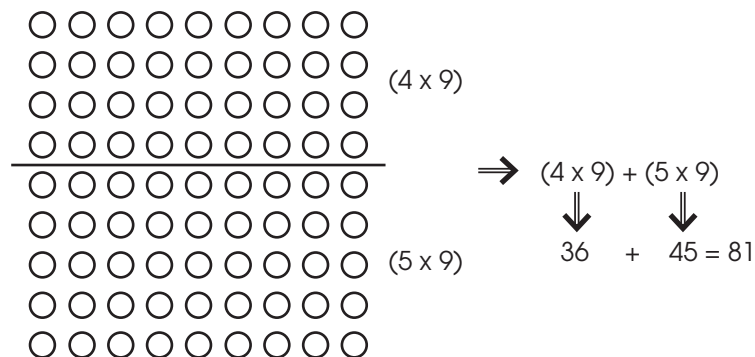
Part 2: Answer each question.

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

$$\underline{(4 \times 6) + (5 \times 6) = 9 \times 6 = 54}$$



2. Draw an array and a line to represent taking apart an unknown fact to find 9×9 , and then solve.

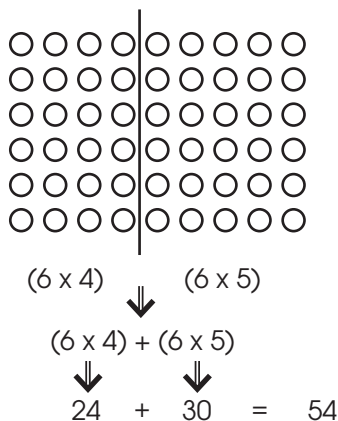




Answer Key: Independent Practice (cont.)

Part 2 (cont.)

3. Draw and divide an array to show the doubling strategy for 6×9 , and then solve. $6 \times 9 = (3 \times 9) + (3 \times 9) = 54$



4. Take apart and solve the unknown fact to find 9×12 . Use the graphic organizer below if needed.

X	4	5	$4s + 5s$	9
12	48	60	$48 + 60$	108