Chapter 2

Lesson 7

Name _____ Date _____

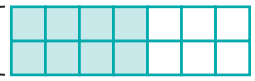
Arrays with Leftovers

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Fill in the missing numbers for the full columns and the tiles left over.

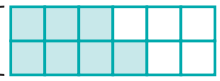
1 $2\overline{)8}$

Number of full columns	4
Number of tiles left over	0

2 

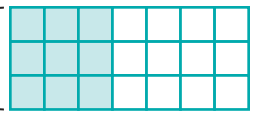
2 $2\overline{)7}$

Number of full columns	
Number of tiles left over	1

2 

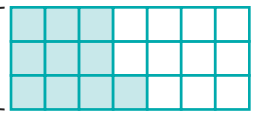
3 $3\overline{)9}$

Number of full columns	
Number of tiles left over	

3 

4 $3\overline{)10}$

Number of full columns	
Number of tiles left over	

3 

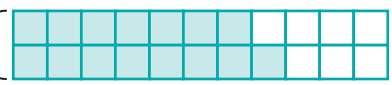
5 $2\overline{)12}$

Number of full columns	
Number of tiles left over	

2 

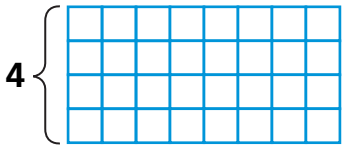
6 $2\overline{)15}$

Number of full columns	
Number of tiles left over	

2 

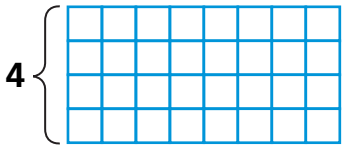
For each of the problems, find the arrangement of tiles with the greatest number of complete columns.

7 $4\overline{)12}$



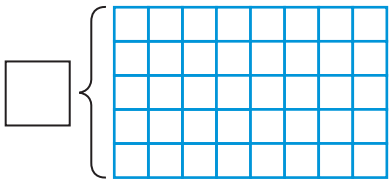
Number of total tiles	12	Number of full columns	
Number of tiles in a full column	4	Number of tiles left over	0

8 $4\overline{)18}$



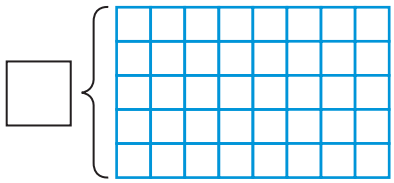
Number of total tiles	18	Number of full columns	4
Number of tiles in a full column	4	Number of tiles left over	

9 $5\overline{)17}$



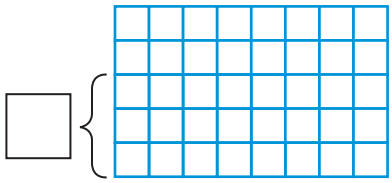
Number of total tiles	17	Number of full columns	
Number of tiles in a full column	5	Number of tiles left over	

10 $5\overline{)24}$



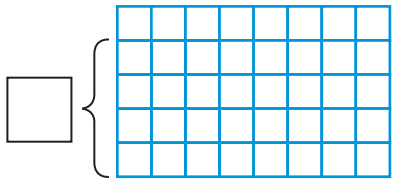
Number of total tiles	24	Number of full columns	
Number of tiles in a full column	5	Number of tiles left over	

11 Challenge $3\overline{)16}$



Number of total tiles	16	Number of full columns	
Number of tiles in a full column	3	Number of tiles left over	

12 Challenge $4\overline{)14}$



Number of total tiles	14	Number of full columns	
Number of tiles in a full column		Number of tiles left over	