

Exploring a Multiplication Shortcut

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

Look for shortcuts in completing the tables and finding the number of squares in the arrays.

1

	6	2	8	10	11
× 2	12				

2

	2	5	9	0	10
× 3	6				

3

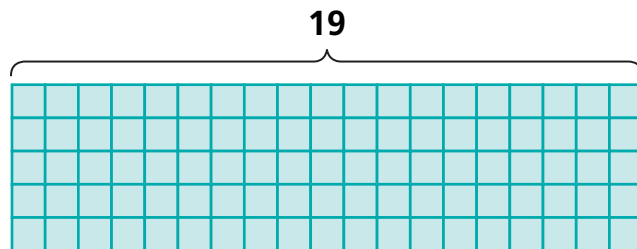
	1	3	5	6	8
× 2					
× 4					
× 6					

4

	2	0	10	6	9
× 3					
× 6					
× 9					

5

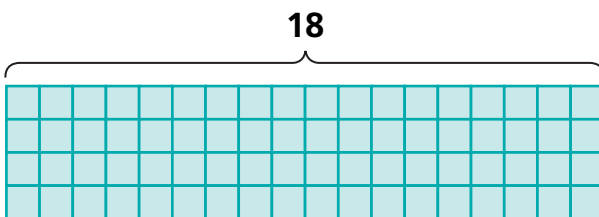
	1	4	5	9	10
× 5					



_____ squares

6

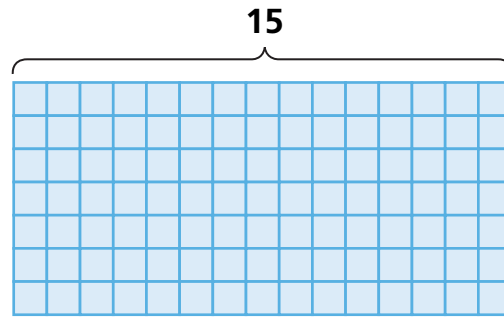
	3	4	7	8	11
× 4					



_____ squares

7

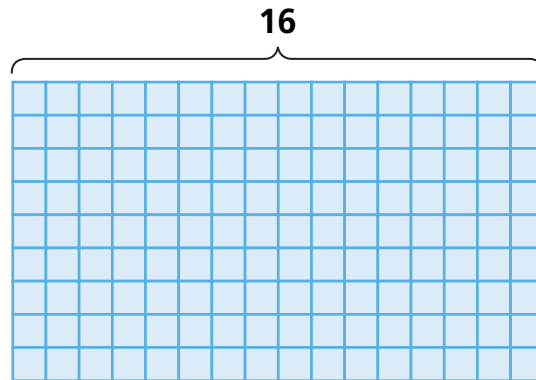
	3	4	5	7	12
$\times 7$					



_____ squares

8

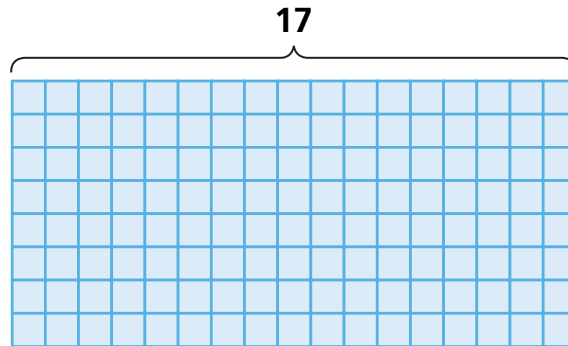
	2	3	5	8	11
$\times 9$					



_____ squares

9

	2	4	5	9	14
$\times 8$					



_____ squares

10 Challenge Sue wants to give 7 party favors to everyone at her party. There are 14 boys and 13 girls at her party. How many favors does she need? Explain your answer using numbers, pictures, or words.

_____ favors