

Using a Multiplication Shortcut

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

Fill in the addition and multiplication tables.
Look for shortcuts to help you.

1

+	1	5	2	6	4	10
3				9		
1						
4			6			
5						
7						

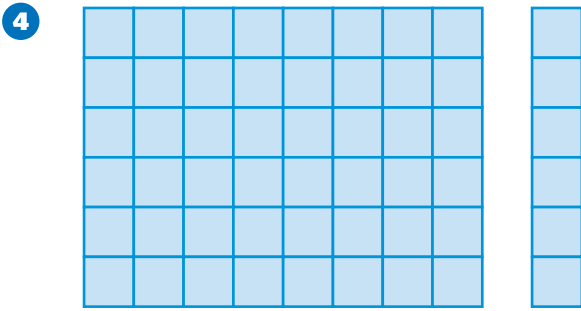
2

×	1	5	2	6	4	10
3						
1		5				
4			8			
5						
7						

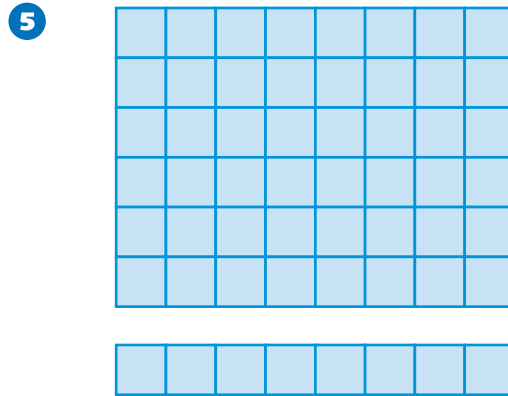
3

×	3	6	9	10	5	15
6						
2			18			
8						
9						

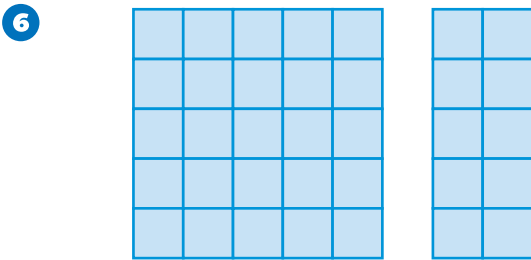
How many more squares are needed in an array when a factor is increased by 1 or 2? How many squares in all?



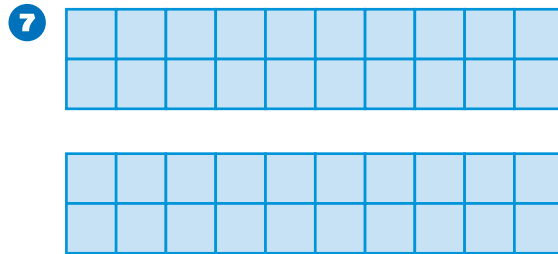
$$(6 \times 8) + 6 = \square$$



$$(\square \times \square) + \square = \square$$



$$(5 \times 5) + (\square \times \square) = \square$$



$$(\square \times \square) + (\square \times \square) = \square$$

8 Challenge Reese has 14 birds and 25 dogs. How many legs do her pets have? Show your work by writing a number sentence.

_____ legs