Name _____ Date _____
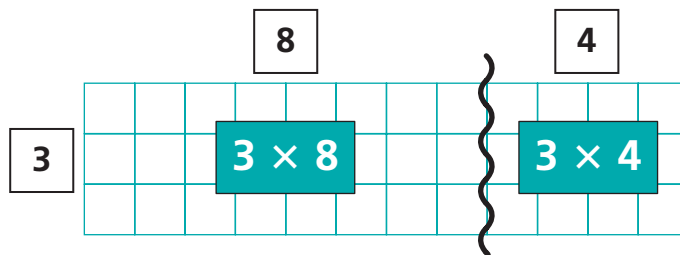
Using Arrays to Model Multiplication

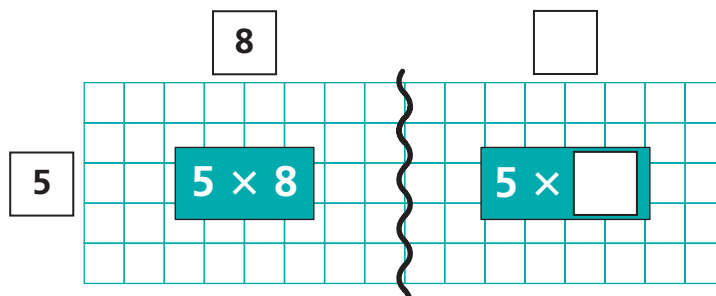**NCTM Standards 1, 2, 6, 7, 8, 9, 10**

Complete each chart to find the number of squares in each array.
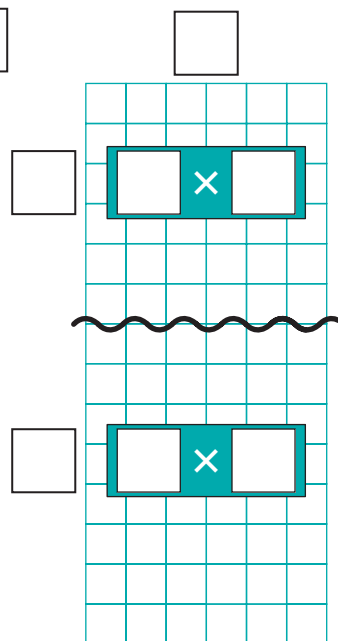
1 $3 \times 12 = \boxed{}$

| 8 | | | | | 4 | |

| | 3 × 8 | | | 3 × 4 | |

×	8	4	12
3		12	

---

2 $5 \times 16 = \boxed{}$

| 8 | | | | $\boxed{}$ | |

| 5 | 5 × 8 | | 5 × $\boxed{}$ | |

×	8	8	
5			

---

3 $14 \times 6 = \boxed{}$ $\boxed{}$

$\boxed{}$ $\boxed{} \times \boxed{}$

$\boxed{}$ $\boxed{} \times \boxed{}$

×	6
6	
8	

4 $15 \times 7 = \boxed{}$
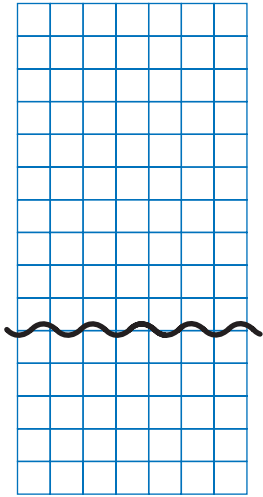
$\times$	7
10	
15	

5 $17 \times 9 = \boxed{}$
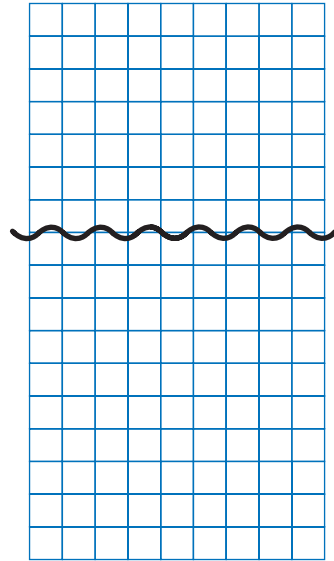
$\times$	9
7	
17	

6 $8 \times 13 = \boxed{}$
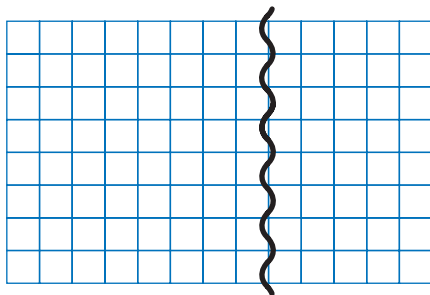
$\times$		13
8		

7 $7 \times 16 = \boxed{112}$
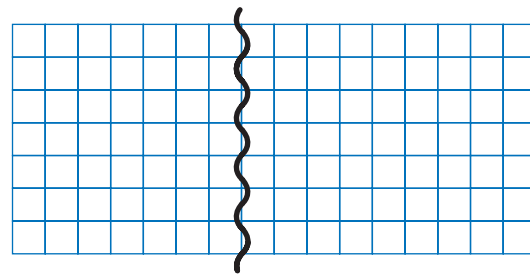
$\times$		16
7		

8 **Challenge** A theater has 12 rows of seats. There are 18 seats in each row. How many seats are there?

$\boxed{}$ seats