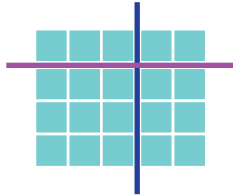


Separating Arrays

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

Complete the diagrams and number sentences.

1

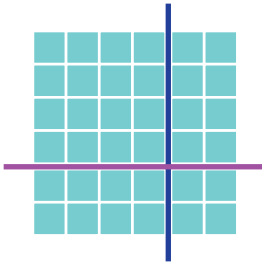


1×3	
	3×2

	2
9	

$$(1 \times 3) + (3 \times 3) + (1 \times 2) + (3 \times 2) = \boxed{20}$$

2

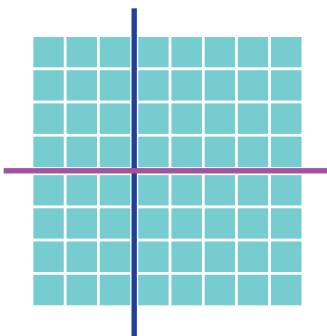


4×4	

8	

$$(4 \times 4) + (2 \times 4) + (\square \times \square) + (2 \times 2) = \square$$

3

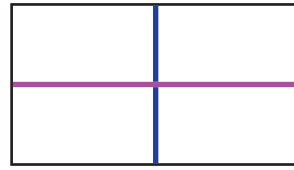
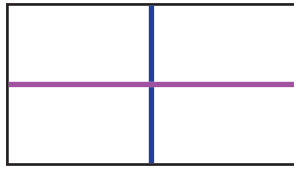
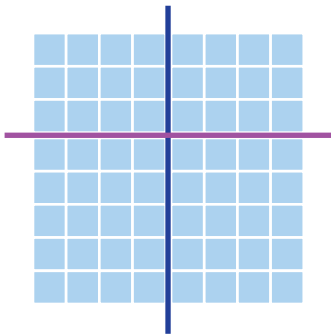


4×3	

	20

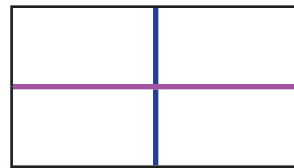
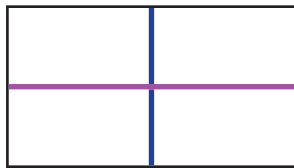
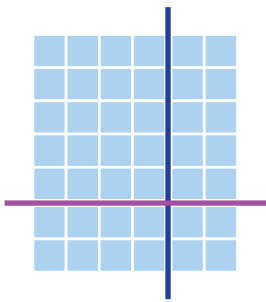
$$(4 \times 3) + (4 \times 3) + (4 \times 5) + (\square \times \square) = \square$$

4



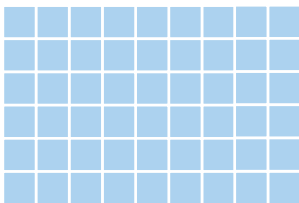
$$(\square \times \square) + (\square \times \square) + (\square \times \square) + (\square \times \square) = \square$$

5



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

6 Challenge Separate the array into four sections and complete the diagrams.



Write a number sentence to help find the total number of squares in the array.