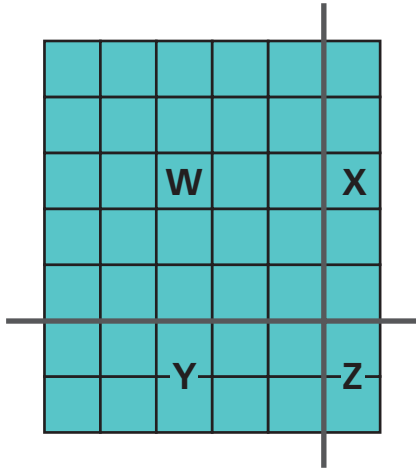


Separating Arrays

NCTM Standards 1, 2, 7, 9, 10

Write a multiplication sentence for each part of the big array. Find the number of the tiles in the parts to finish the multiplication sentence for the big array.

1



$$W: 5 \times 5 = \square$$

$$X: 5 \times 1 = \square$$

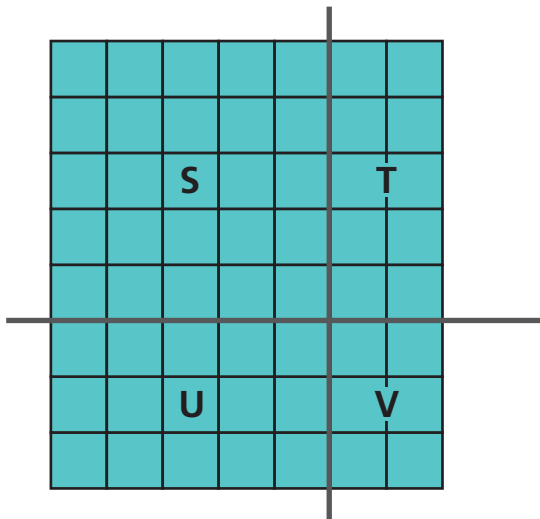
$$Y: 2 \times 5 = \square$$

$$Z: 2 \times 1 = \square$$

$$W + X + Y + Z = \square$$

$$7 \times 6 = \square$$

2



$$S: \square \times \square = \square$$

$$T: \square \times \square = \square$$

$$U: \square \times \square = \square$$

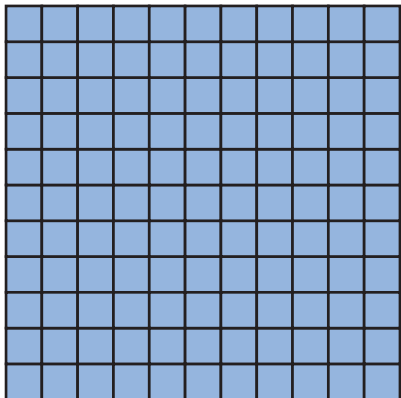
$$V: \square \times \square = \square$$

$$S + T + U + V = \square$$

$$\square \times \square = \square$$

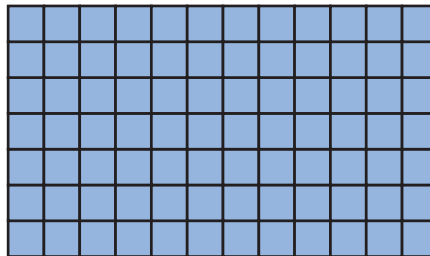
Separate each array into two, three, or four parts. Label each part with its number of tiles. Find the sum of the tiles in the parts to finish the multiplication sentence for the big array.

3



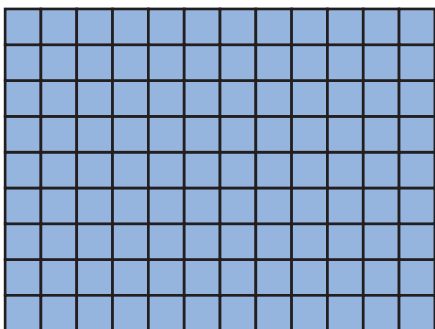
$$\boxed{11} \times \boxed{11} = \boxed{}$$

4



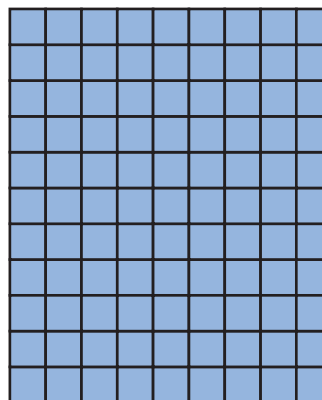
$$\boxed{7} \times \boxed{12} = \boxed{}$$

5



$$\boxed{} \times \boxed{12} = \boxed{}$$

6



$$\boxed{11} \times \boxed{} = \boxed{}$$

7 Challenge Fill in the missing numbers in this number sentence. (Think about separating a big array into parts.)

$$(10 \times 10) + (4 \times \boxed{}) + (\boxed{} \times 10) + (3 \times \boxed{}) = 14 \times 13$$