Array Builder

Separating Arrays

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$$\square = \square \times \square + (\square) \times \square + (\square) \times \square + (\square) \times \square$$
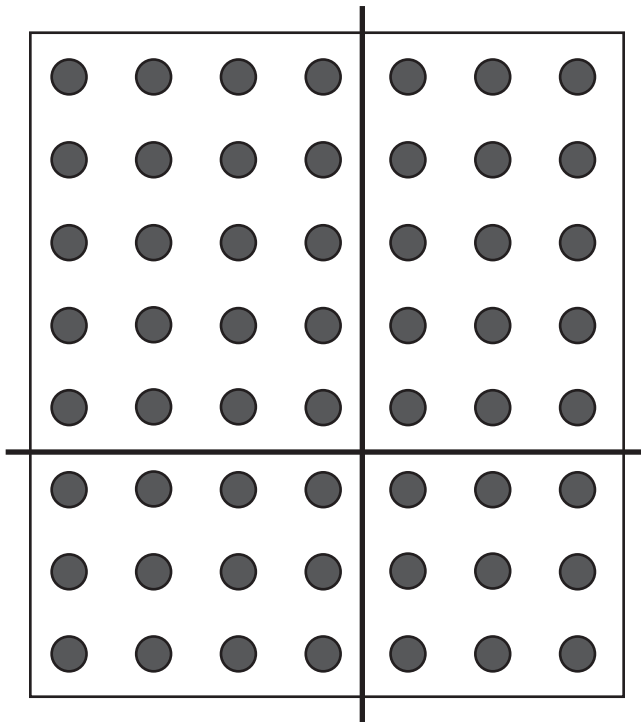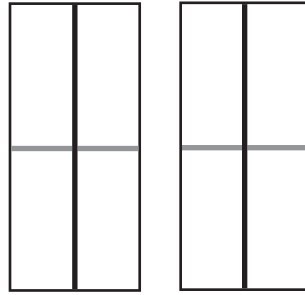
7-by-8 Array Separation

1 Separate the array into 4 sections. Use 1 horizontal and 1 vertical line.
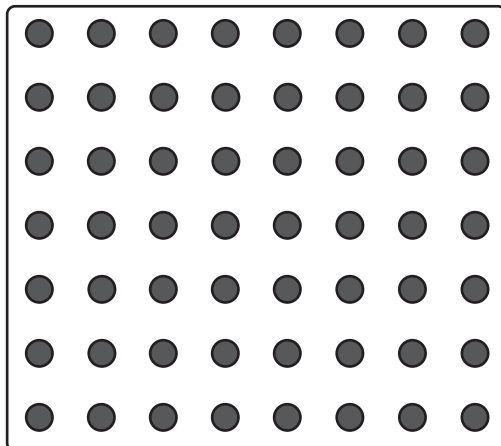
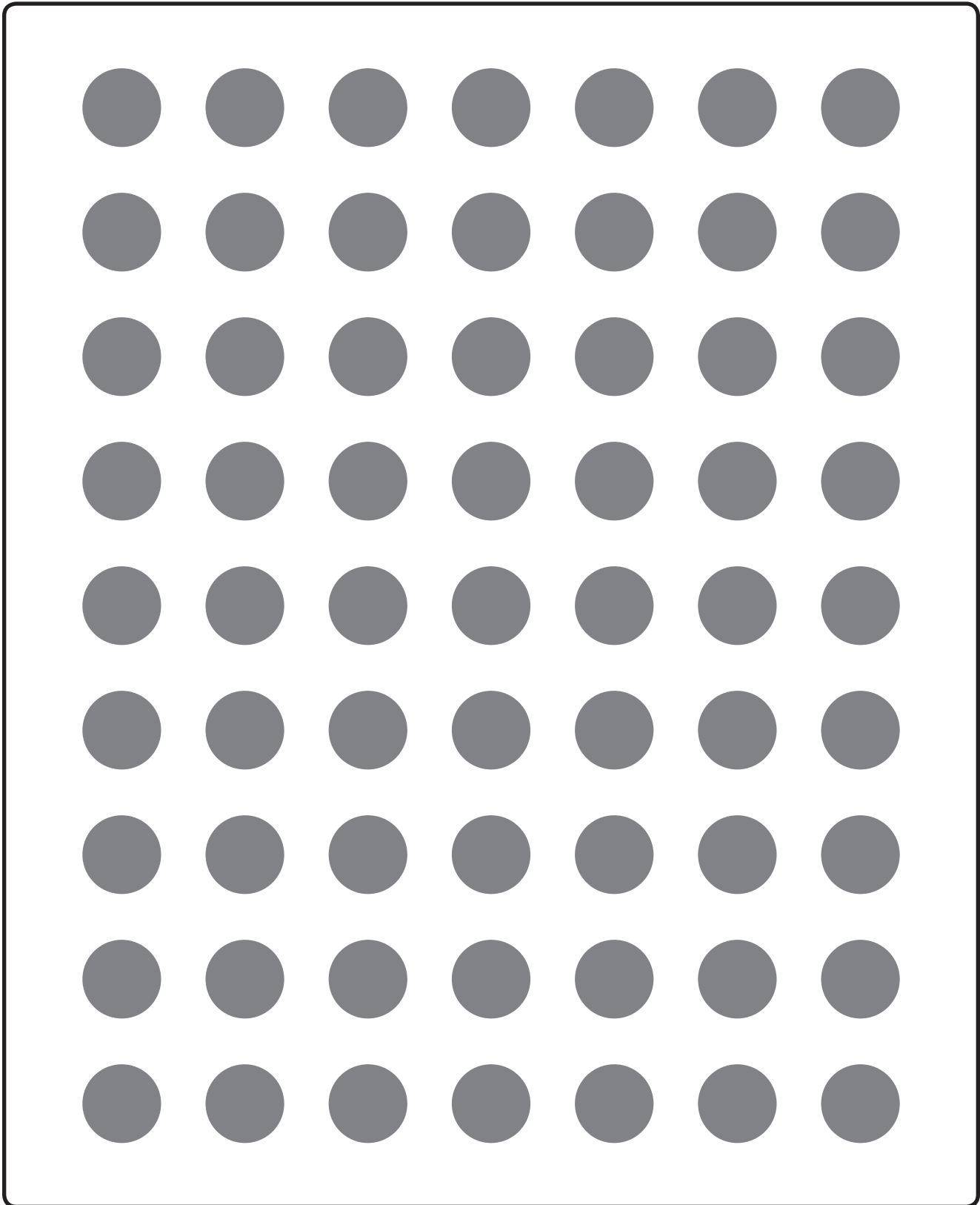**2** Write the multiplication used to find the number of dots in each section.

3 How many dots are in each section?

4 Complete the sentence to represent your array.

$$(\boxed{} \times \boxed{}) + (\boxed{} \times \boxed{}) + (\boxed{} \times \boxed{}) + (\boxed{} \times \boxed{}) = \boxed{}$$
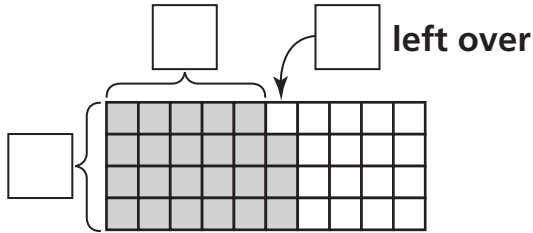
9-by-7 Dot Array

Arranging Tiles

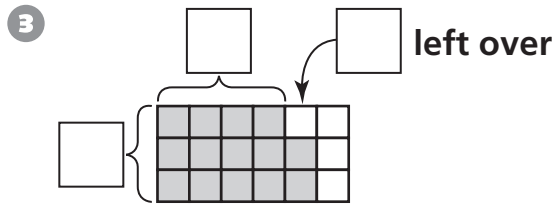**Make as many full columns as possible.**

1 Arrange **23** tiles into columns of no more than **4** tiles

□   □ left over

2 Arrange **19** tiles into columns of no more than **3** tiles.
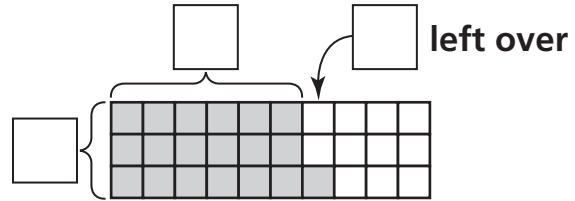
□   □ left over

Fill in the number of rows, columns, and leftover tiles.

3 □   □ left over

4 □   □ left over
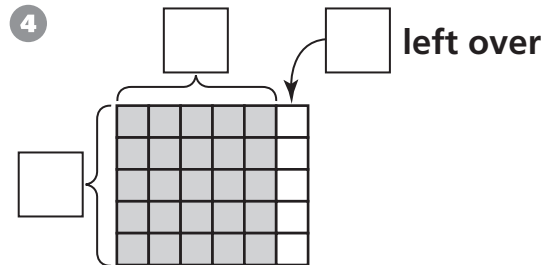
Now use the new notation. The r stands for remaining tiles.

5 □ r □

3 { 12

6 □ r □

4 { 21