Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Multiplication with Arrays**

When you multiply, think of the multiplication symbol as having the

meaning “rows of.”

The fact 3 x 6 would actually mean “3 rows of 6.”

To solve this fact, draw 3 rows of 6 symbols.

x x x x x x

x x x x x x

3

 rows of 6 symbols equals 18 symbols.

x x x x x x

3

18

 x 6 =

Symbols arranged in neat rows and columns are called arrays.

 Look at each array. Count the symbols in each row and column carefully.

 Write the multiplication fact for each.

 **1.**

O O O O O O O O

O O O O O O O O

\_\_\_\_\_\_\_ rows of \_\_\_\_\_\_\_ equals \_\_\_\_\_\_\_

O O O O O O O O

O O O O O O O O

\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_ = \_\_\_\_\_\_\_

 **2.**

| | | | | | | | |

| | | | | | | | |

\_\_\_\_\_\_\_ rows of \_\_\_\_\_\_\_ equals \_\_\_\_\_\_\_

| | | | | | | | |

| | | | | | | | |

\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_ = \_\_\_\_\_\_\_

| | | | | | | | |

 **3.**



  

   

\_\_\_\_\_\_\_ rows of \_\_\_\_\_\_\_ equals \_\_\_\_\_\_\_

   

   

\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_ = \_\_\_\_\_\_\_

***Now try this:***

 On the back of this paper, draw an array for each of these facts:

 ***x 4***

***7***

***8***

 ***x***

***3***

***9***

 ***x***

***6***

***3***

 ***x***

***7***

***8***

 ***x***

***5***



Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Multiplication with Arrays**

You can find the answer to basic multiplication facts by making a symbol

picture called an array.

An array is a group of symbols arranged in straight rows and columns.

x x x x x x x

x x x x x x x

 3 rows of 7 symbols equals 21 symbols.

x x x x x x x

 3 x 7 = 21

 Draw an array to find the answer to each multiplication fact below.

 Be sure you draw your symbols in neat, straight rows and columns.

4

 x 5 = \_\_\_\_\_\_

6

 x 4 =

\_\_\_\_\_\_

3

 x 8 = \_\_\_\_\_\_

3

 x 9 = \_\_\_\_\_\_

5

 x 8 = \_\_\_\_\_\_

7

 x 4 = \_\_\_\_\_\_

4

 x 9 = \_\_\_\_\_\_

5

 x 5 = \_\_\_\_\_\_