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
x x x x x x

3 rows of 6 symbols equals 18 symbols.
3 x 6 = 18

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
O O O O O O O O
O O O O O O O O

_____ rows of _____ equals _____

_____ 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:

7 x 4 ***8 x 3*** ***9 x 6*** ***3 x 7*** ***8 x 5***

ANSWER KEY

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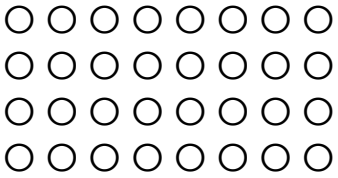
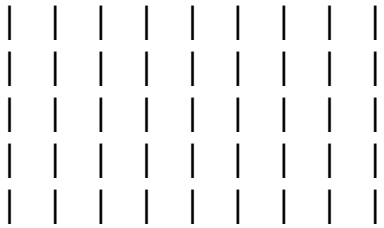
1. 

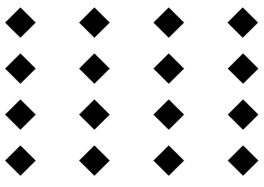
4 rows of **8** equals **32**

4 x **8** = **32**

2. 

5 rows of **9** equals **45**

5 x **9** = **45**

3. 

4 rows of **4** equals **16**

4 x **4** = **16**

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

7 x 4 *8 x 3* *9 x 6* *3 x 7* *8 x 5*