

Name: _____

Multiplication with Arrays

When you multiply, think of the multiplication symbol as having the meaning "rows of."

The fact 3×6 would actually mean "3 rows of 6"

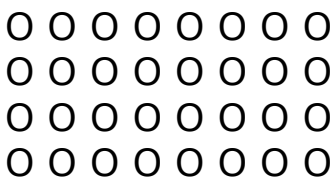
To solve this fact, draw 3 rows of 6 symbols.

x x x x x x
x x x x x x
x x x x x x

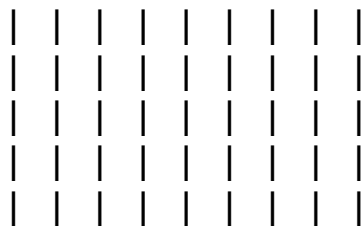
3 rows of 6 symbols equals 18 symbols.
 $3 \times 6 = 18$

Symbols arranged in neat rows and columns are called arrays.

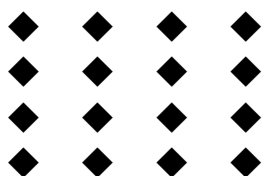
Look at each array. Count the symbols in each row and column carefully. Write the multiplication fact for each.

1. 

_____ 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:

7×4

8×3

9×6

3×7

8×5

Name: _____

ANSWER KEY

Multiplication with Arrays

When you multiply, think of the multiplication symbol as having the meaning "rows of."

The fact 3×6 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 | $3 \times 6 = 18$ |

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 | 4 rows of 8 equals 32 |
| o o o o o o o o | |
| o o o o o o o o | 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:

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