Basic Facts 1 - 16

Daily Facts

The *Daily Facts* are located in the lettered boxes at the top of *Basic Facts 1 - 16.* These facts are to be used for direct teaching.

Individual Daily Fact

Rectangular Array
Work with the students on each array.
See the following page for a scripted lesson.

Say the Fact
After working with the array for each fact, ***say*** the fact 3 times before moving to the next array.

Write the Fact
After saying the fact 3 times, instruct students to use the back of the worksheet to ***write*** the fact 3 times.

Set of Daily Facts

Rhythm Chant
After working with the students using the above steps, use the *Daily Facts* in a rhythm chant.
Set up a continuing rhythm.

pat pat clap clap

After the rhythm is established, state a fact starting with the pats.

teacher: **2 times 3**
pat pat clap clap

Students give the product during the next set.

students: **product is 6**
pat pat clap clap

Facts Practice
Give each pair of students 1 copy of the weekly *Facts Practice*.
Assign the group(s) of facts.
Demonstrate how to call out the facts to a partner.

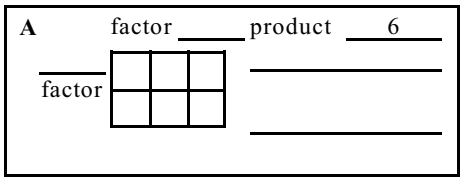
Independent Practice

Students are to solve the facts on the lower half of the worksheet.
Some blackline masters will have review facts.

Script for Rectangular Arrays

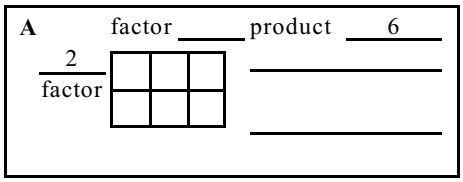
Say: Look at this arrangement.
How many in all?
The number in all is called the product.
Write 6 in the blank.

6 in all.



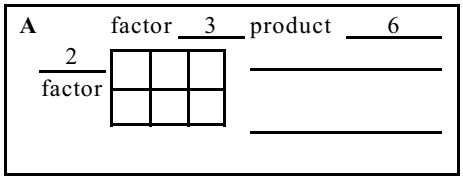
How many rows?
A row is a factor.
2 is a factor of 6.
Write 2 in the blank.

2 rows.

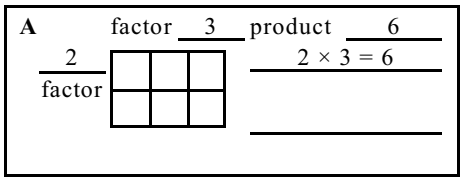


How many in each row?
The number in each row is also a factor.
3 is a factor of 6.
Write 3 in the blank.

3 in each row.



Write: $2 \times 3 = 6$.



Look at these numbers.
What number did I write first?
What number did I write after the times sign?

2 which is the number of rows.
3 which is the number in each row.

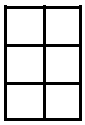
The "×" sign represents the word "of".

$2 \times 3 = 6$
2 rows. 3 in each row. 6 in all.
2 rows of 3 equals 6.

The number sentence for an arrangement is always written:

Number of rows × number in each row = number in all
factor × factor = product

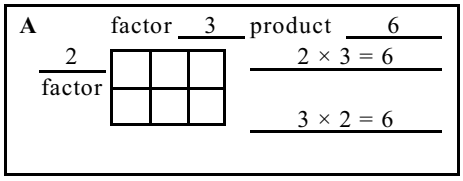
Now turn your paper sideways and look at the arrangement.



How many in all?
How many rows?
How many in each row?

6 in all.
3 rows.
2 in each row.

Write: $3 \times 2 = 6$.



Look at these numbers.
What number did I write first?
What number did I write after the times sign?

3 which is the number of rows.
2 which is the number in each row.

Did the number of squares in the arrangement change?

No.

This is called the Commutative Property.

Commutative Property
the order of numbers does not change the result
$a \times b = b \times a$

Week 4 **Teasers** **Factors, Products, Multiplication Facts**

Materials:
Blackline Masters: *Basic Facts 13, 14, 15, 16,* 1 per student
Facts Practice, 1 per partners
Transparencies: *Basic Facts 13, 14, 15, 16*
Pencils

Follow teaching instructions, page 1.

Mon **Basic Facts 13** **Teasers**

Facts Practice Teasers A

Independent Practice Key

12	18	64	27	81	35				
16	49	21	4	10	18				
72	36	30	54	9	20				
12	18	25	12	45	15				
16	40	63	14	36	21				
21	64	12	54	40	25	27	49	18	36
36	18	63	16	21	72	12	81	35	9

Tue **Basic Facts 14** **Teasers**

Facts Practice Teasers B

Independent Practice Key

25	24	12	9	28	16				
45	49	35	63	36	24				
12	72	64	21	36	15				
4	24	54	40	18	81				
21	27	18	24	20	28				
24	12	28	54	24	81	16	18	36	63
21	25	49	18	28	21	64	12	24	24

Wed **Basic Facts 15** **Teasers**

Facts Practice Teasers C

Independent Practice Key

32	36	21	49	64	42				
42	18	54	18	24	12				
25	28	24	56	63	48				
12	36	27	24	21	16				
48	24	56	81	32	28				
12	32	25	49	24	72	24	64	42	54
42	18	81	28	9	32	36	16	21	63

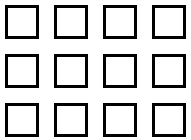
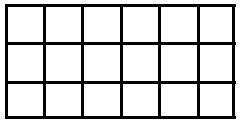
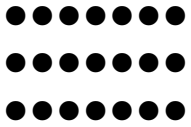
Thu **Basic Facts 16** **Teasers**

Facts Practice Teasers D

Independent Practice Key

21	81	12	36	24	56				
16	32	45	24	15	63				
56	36	48	12	25	30				
27	72	20	64	48	18				
28	42	40	54	49	35				
48	49	18	36	56	24	42	24	64	28
12	56	81	54	32	36	27	48	21	63

Name _____ **Basic Facts 13**

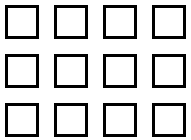
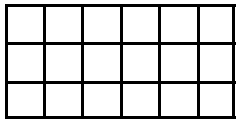
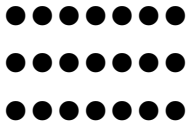
A factor _____ product _____	**B** factor _____ product _____	**C** factor _____ product _____
 _____ factor _____	 _____ factor _____	 _____ factor _____

3 × 4 = _____	2 × 9 = _____	8 × 8 = _____	9 × 3 = _____	9 × 9 = _____	5 × 7 = _____
8 × 2 = _____	7 × 7 = _____	7 × 3 = _____	2 × 2 = _____	2 × 5 = _____	6 × 3 = _____
9 × 8 = _____	9 × 4 = _____	6 × 5 = _____	6 × 9 = _____	3 × 3 = _____	5 × 4 = _____
6 × 2 = _____	3 × 6 = _____	5 × 5 = _____	4 × 3 = _____	5 × 9 = _____	3 × 5 = _____
4 × 4 = _____	8 × 5 = _____	9 × 7 = _____	7 × 2 = _____	6 × 6 = _____	3 × 7 = _____

7 × 3	8 × 8	3 × 4	9 × 6	5 × 8	5 × 5	3 × 9	7 × 7	3 × 6	4 × 9

6 × 6	6 × 3	7 × 9	4 × 4	3 × 7	8 × 9	4 × 3	9 × 9	7 × 5	3 × 3

Nombre _____ **Hechos básicos 13**

A factor _____ producto _____	**B** factor _____ producto _____	**C** factor _____ producto _____
 _____ factor _____ _____	 _____ factor _____ _____	 _____ factor _____ _____

3 × 4 = _____	2 × 9 = _____	8 × 8 = _____	9 × 3 = _____	9 × 9 = _____	5 × 7 = _____
8 × 2 = _____	7 × 7 = _____	7 × 3 = _____	2 × 2 = _____	2 × 5 = _____	6 × 3 = _____
9 × 8 = _____	9 × 4 = _____	6 × 5 = _____	6 × 9 = _____	3 × 3 = _____	5 × 4 = _____
6 × 2 = _____	3 × 6 = _____	5 × 5 = _____	4 × 3 = _____	5 × 9 = _____	3 × 5 = _____
4 × 4 = _____	8 × 5 = _____	9 × 7 = _____	7 × 2 = _____	6 × 6 = _____	3 × 7 = _____

7 × 3	8 × 8	3 × 4	9 × 6	5 × 8	5 × 5	3 × 9	7 × 7	3 × 6	4 × 9

6 × 6	6 × 3	7 × 9	4 × 4	3 × 7	8 × 9	4 × 3	9 × 9	7 × 5	3 × 3