

Section 3 Basic Facts Grade 3


Script for Direct Teaching

Say:

A Look at **A**. Look at the array.
 How many in all?
 Write 6 in the blank.
 The “number in all” is the product.
 Write the product.

6 in all.


A ___ in each row
 ___ factor

___ rows  How many in all? 6
 Product 6
 ___ × ___ = ___

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

2 rows.


A ___ in each row
 ___ factor

2 rows  How many in all? 6
 Product 6
 ___ × ___ = ___

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


3 in each row.

A 3 in each row
 3 factor

2 rows  How many in all? 6
 Product 6
 ___ × ___ = ___

There are 2 rows. 3 in each row. 6 in all.
 factor × factor = product

A 3 in each row
 3 factor

2 rows  How many in all? 6
 Product 6
 2 × 3 = 6

How would this fact be written?
 Write the fact.


2 × 3 = 6

What is the Commutative Property?
 If 2 × 3 = 6, what other fact do we know?
 Write the fact.

the order of numbers does not change the result

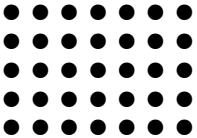
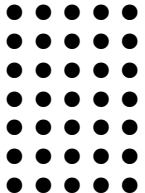
3 × 2 = 6

A 3 in each row
 3 factor

2 rows  How many in all? 6
 Product 6
 2 × 3 = 6

B Look at **B**.
 The factors are 5 and 7.
 How would this array be sketched?
 Sketch the array.

5 rows. 7 in each row. or 7 rows. 5 in each row.

 or 

How many in all?
 Write the product.

35 in all.
 35

Note to Teachers:

C and D are an introduction to multiples.
 Students will use skip counting to become familiar with multiples.
 Terminology will be introduced next six week.

C Look at C. Look at the numbers.

Find the pattern.

Write the pattern above the numbers as you skip count.

$$\begin{array}{cccccc}
 & & + 2 & & + 2 & & + 2 & & + 2 & & + 2 \\
 \text{C} & 2 & 4 & \underline{6} & 8 & 10 & \underline{12} & & & &
 \end{array}$$

D Look at D. Look at the numbers.

Find the pattern.

Write the pattern above the numbers as you skip count.

$$\begin{array}{cccccc}
 & & + 5 & & + 5 & & + 5 & & + 5 & & + 5 \\
 \text{D} & 5 & \underline{10} & 15 & 20 & \underline{25} & 30 & & & &
 \end{array}$$

Rhythm Chant

After working with the students using the above steps, use the facts from A or B 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
 pat pat clap clap
3 in each row
 pat pat clap clap
How many in all?
 pat pat clap clap

students

6 in all
 pat pat clap clap

factor is 2
 pat pat clap clap

factor is 3
 pat pat clap clap

What's the product?
 pat pat clap clap

product is 6
 pat pat clap clap

2 times 3
 pat pat clap clap

e-quals 6
 pat pat clap clap

Week 1 Factors, Products, and Multiples

Materials:

Blackline Masters: *Basic Facts 1, 2, 3, 4*, 1 per student

Transparencies: *Basic Facts 1, 2, 3, 4*

Pencils

Follow teaching instructions, pages 1 - 2.

Mon	Basic Facts 1	Twos and Fives						
	Direct Teaching	A - D	A	rows/factor in each row/factor product	2 3 6	1	rows/factor in each row/factor product	2 6 12
	Independent Practice	1 - 4		$2 \times 3 = 6$ $3 \times 2 = 6$			$2 \times 6 = 12$ $6 \times 2 = 12$	
			B	product	35	2	product	40
			C	6 12		3	14 18	
			D	10 25		4	20 30	
Tue	Basic Facts 2	Twos and Fives						
	Direct Teaching	A - D	A	rows/factor in each row/factor product	2 8 16	1	rows/factor in each row/factor product	2 4 8
	Independent Practice	1 - 4		$2 \times 8 = 16$ $8 \times 2 = 16$			$2 \times 4 = 8$ $4 \times 2 = 8$	
			B	product	20	2	product	45
			C	14 20		3	30 38	
			D	45 55		4	30 35	
Wed	Basic Facts 3	Twos and Fives						
	Direct Teaching	A - D	A	rows/factor in each row/factor product	2 5 10	1	rows/factor in each row/factor product	2 7 14
	Independent Practice	1 - 4		$2 \times 5 = 10$ $5 \times 2 = 10$			$2 \times 7 = 14$ $7 \times 2 = 14$	
			B	product	30	2	product	15
			C	48 54		3	68 70	
			D	35 45		4	85 95	
Thu	Basic Facts 4	Practice						
	Independent Practice	1 - 6	1	factors product	3, 5 15	4	factors product	2, 3 6
				$3 \times 5 = 15$ $5 \times 3 = 15$			$2 \times 3 = 6$ $3 \times 2 = 6$	
			2	factors product	2, 7 14	5	factors product	4, 5 20
				$2 \times 7 = 14$ $7 \times 2 = 14$			$4 \times 5 = 20$ $5 \times 4 = 20$	
			3	factors product	5, 9 45	6	factors product	2, 6 12
				$5 \times 9 = 45$ $9 \times 5 = 45$			$2 \times 6 = 12$ $6 \times 2 = 12$	

Name _____

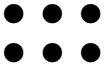
Basic Facts 1

A _____ in each row
_____ factor

_____ rows

How many in all? _____

product _____



_____ × _____ = _____

_____ × _____ = _____

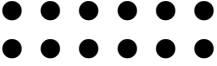
factor

1 _____ in each row
_____ factor

_____ rows

How many in all? _____

product _____



_____ × _____ = _____

_____ × _____ = _____

factor

B Sketch to solve.
The factors are 5 and 7. The product is _____.

2 Sketch to solve.
The factors are 5 and 8. The product is _____.

Fill in the missing numbers.

C 2 4 _____ 8 10 _____

D 5 _____ 15 20 _____ 30

Fill in the missing numbers.

3 8 10 12 _____ 16 _____

4 10 15 _____ 25 _____ 35

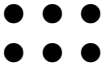
Nombre _____

Hechos básicos 1

A _____ en cada hilera
_____ factor

_____ ¿Cuántos en total? _____
hileras

_____ producto _____
factor

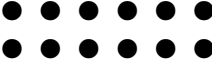


_____ × _____ = _____
_____ × _____ = _____

1 _____ en cada hilera
_____ factor

_____ ¿Cuántos en total? _____
hileras

_____ producto _____
factor



_____ × _____ = _____
_____ × _____ = _____

B Haz un dibujo para resolver.
Los factores son 5 y 7. El producto es _____.

2 Haz un dibujo para resolver.
Los factores son 5 y 8. El producto es _____.

Completa con los números que faltan.

C 2 4 _____ 8 10 _____

D 5 _____ 15 20 _____ 30

Completa con los números que faltan.

3 8 10 12 _____ 16 _____

4 10 15 _____ 25 _____ 35