

# Multiplication

## Key Objective

Show an interest in number problems.

Verbally count in steps

1

Singing songs and rhymes

Two, four, six, eight,  
who do we appreciate?

### Nursery Rhymes

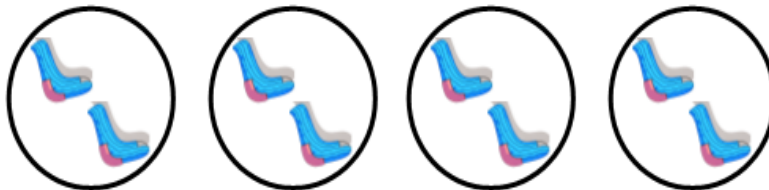


One, two, buckle my shoe,  
three, four open the door,  
five, six, pick up sticks,  
seven, eight, lay them straight.

Practically count in groups during play

2

Without number sentence



## Key Vocabulary

groups of, lots of, count, altogether

# Nursery

# Multiplication

## Key Objective

Calculate mathematical statements for multiplication using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.

### Expanded column multiplication

1

TO x O with brackets

		3	4		
x			3		
<hr/>		1	2	(4 x 3)	
		9	0	(30 x 3)	
<hr/>		1	0	2	

2

TO x O

		3	4		
x			3		
<hr/>		1	2		
		9	0		
<hr/>		1	0	2	

Cross out once used!

## Key Vocabulary

groups of, lots of, times, array, altogether, multiply, count, multiplied by, repeated addition, column, row, commutative, sets of, equal groups, times as big as, once, twice, three times, partition, grid method, multiple, product, tens, ones, value.

# Year 3

# Multiplication

## Key Objective

Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.

### Short column multiplication

1

Multiplying an integer by a decimal

$$£13.85 \times 5$$

1	3	8	5
			5

Take decimal points out

Multiply

Count total decimal places from original numbers

Add decimal point back in

### Long column multiplication

2

THHTO x TO

	2	5	6	4
x			2	3
	7	6	9	2
5	1	2	8	0
5	8	9	7	2

Cross out once used!

3

Decimal x decimal, e.g.  $2.49 \times 4.3$

		2	4	9
x			4	3
	7	4	7	
9	9	6	0	
1	0	7	0	7

Take decimal points out

Multiply

Count total decimal places from original numbers

Add decimal point back in

$$2.49 \times 4.3 \text{ (3d.p.)}$$

$$10.707$$

## Key Vocabulary

groups of, lots of, times, array, altogether, multiply, count, multiplied by, repeated addition, column, row, commutative, sets of, equal groups, times as big as, once, twice, three times, partition, grid method, multiple, product, tens, ones, value, inverse, square, factor, integer, decimal, short / long multiplication, carry, tenths, hundredths.

# Year 6