Multiplication

Key Objective

Show an interest in number problems.

Verbally count in steps

1. Singing songs

Nursery Rhymes

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

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.

Nursery

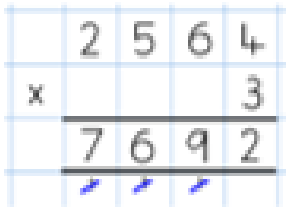
Multiplication

Key Objective

Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.

Short column multiplication

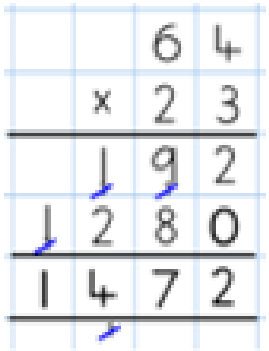
1 THHTO x O



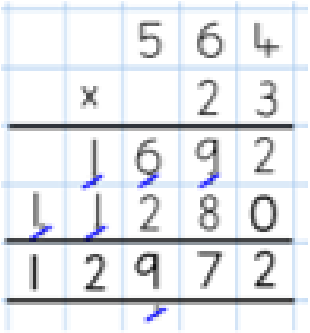
Cross out once used!

Long column multiplication

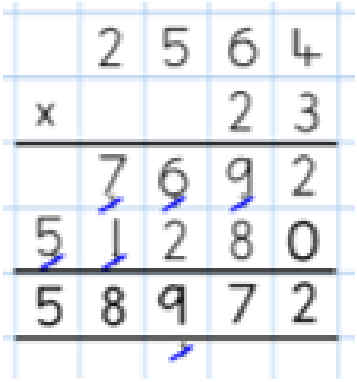
2 TO x TO



3 HTO x TO



4 THHTO x TO



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 5

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

Long column multiplication

1 Multiplying an integer by a decimal

£13.85 x 5

	1	3	8	5
x				5
	6	9	2	5
	✓	✓	✓	

= 6 9 • 2 5

Take decimal points out

Multiply

Count total decimal places from original numbers

Add decimal point back in

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 x 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

2 • 4 9 x 4 • 3 (34p)

1 0 • 7 0 7

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