

# Division

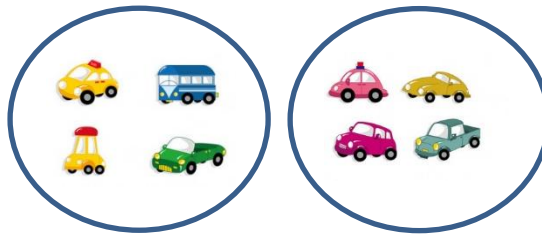
Show an interest in number problems.

## Key Objective

### Sharing

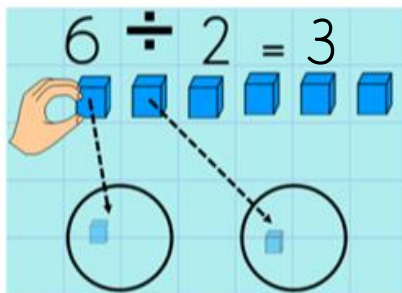
1

Sharing through play



2

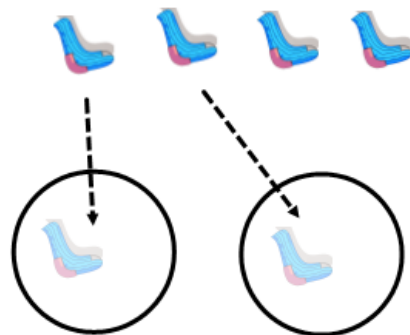
Using objects



"1 for you and 1 for you"

3

Using pictures



share, share equally, one each, two each.

## Key Vocabulary

# Nursery

# Division

## Key Objective

Write and calculate mathematical statements for division using mental and progressing to formal written methods.

Divide mentally and relate to multiplication

1

Multiplication and division facts

$3 \times 4 = 12$

$12 \div 4 = 3$

$4 \times 3 = 12$

$12 \div 3 = 4$

$4 \times 9 = 36$

$36 \div 9 = 4$

$9 \times 4 = 36$

$36 \div 4 = 9$

3

TO  $\div$  O with exchanging

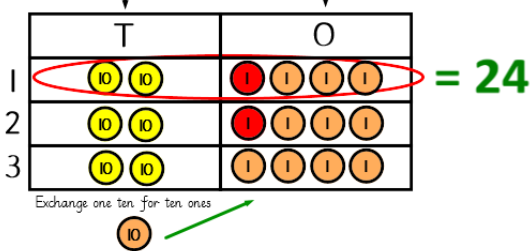
$72 \div 3$

1) Build the number



2) Share the tens

3) Share the ones



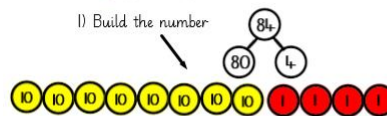
Divide using counters (sharing)

2

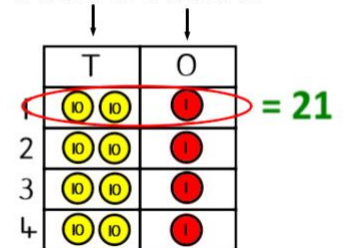
TO  $\div$  O No exchanging

$84 \div 4$

1) Build the number



2) Share the tens 3) Share the ones

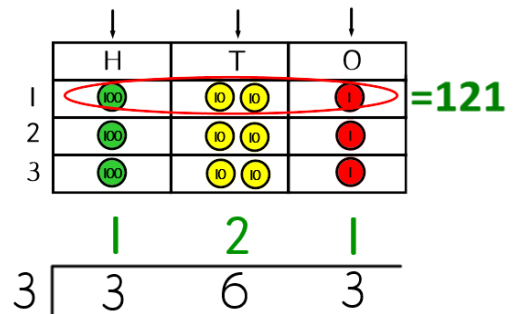


4

HTO  $\div$  O  
introduce short  
division layout

$363 \div 3$

Share the hundreds Share the tens Share the ones



Please note:  
Tasks should  
be practical  
and no  
drawings  
needed.

## Key Vocabulary

share, share equally, one each, two each..., group, groups of, lots of, array, divide, divided by, divided into, division, grouping, number line, left, left over, inverse, short division, carry, remainder, multiple.

# Year 3

# Division

## Key Objective

Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and short division.

### Short division

1

Decimal  $\div$  integer

$$\begin{array}{r} \text{£ } 2.34 \\ 4 \overline{) \text{£ } 9.36} \end{array}$$

$$\text{£ } 2.34$$

Context of money  
e.g.  $\text{£}9.36 \div 4 = \text{£}2.34$

### Long division

2

2-digit divisor

$$3519 \div 23 = 153$$

$$\begin{array}{r} 153 \\ 23 \overline{) 3519} \\ \underline{- 23} \phantom{00} \\ 121 \phantom{0} \\ \underline{- 115} \phantom{0} \\ 69 \\ \underline{- 69} \\ 0 \end{array}$$

$$= 153$$

Mental working out		
23	x 1	= 23
23	x 2	= 46
23	x 3	= 69
23	x 4	= 92
23	x 5	= 115

End with a



# DMS ↓ loop

Divide Multiply Subtract

## Key Vocabulary

share, share equally, one each, two each..., group, groups of, lots of, array, divide, divided by, divided into, division, grouping, number line, left, left over, inverse, short division, carry, remainder, multiple, divisible by, factor, quotient, prime number, prime factors, composite number (non-prime), common factor.

# Year 6