

Division

Key Objective

Show an interest in number problems.

Sharing

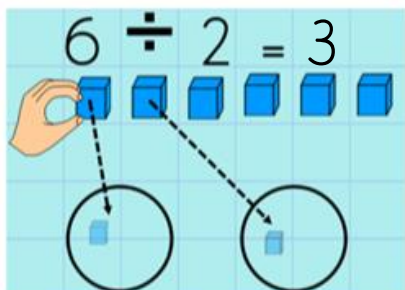
1

Sharing through play



2

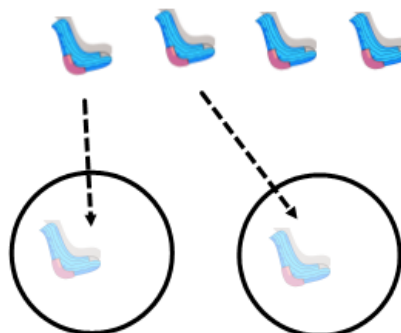
Using objects



"1 for you and 1 for you"

3

Using pictures



Key Vocabulary

share, share equally, one each, two each.

Nursery

Division

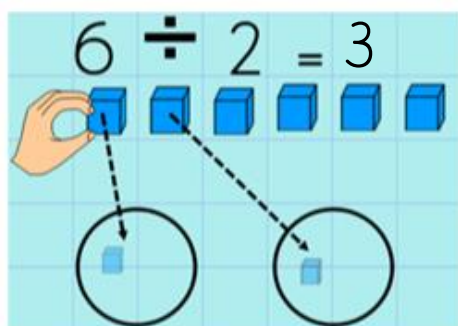
Key Objective

Solve problems involving halving and sharing.

Dividing by Sharing

1

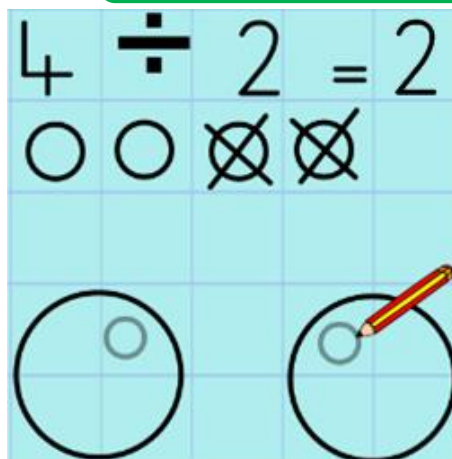
Practically using objects



"1 for you and 1 for you"

2

Pictorial representations



Key Vocabulary

share, share equally, one each, two each..., group.

Reception

Division

Key Objective

Solve one-step division problems using concrete objects, pictorial representations and arrays with the support of the teacher.

Divide using a number line

1

Arrays



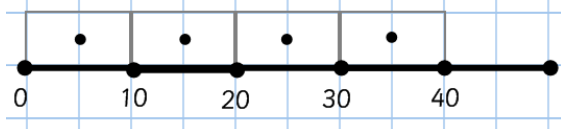
There are ___ groups of ___ pencils.

There are ___ groups of ___ flowers.

2

Guided number line

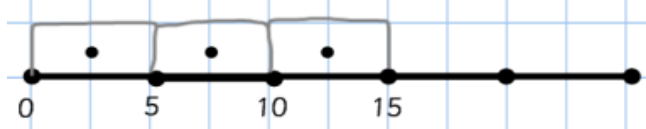
$$40 \div 10 = 4$$



3

Draw own number line

$$15 \div 5 = 3$$



Key Vocabulary

share, share equally, one each, two each..., group, groups of, lots of, array.

Year 1

Division

Key Objective

Solve problems involving division using mental methods and multiplication and division facts.

Divide mentally and relate to multiplication

1

Multiplication and division facts

$$5 \times 2 = 10$$

$$10 \div 2 = 5$$

$$2 \times 5 = 10$$

$$10 \div 5 = 2$$

$$5 \times 10 = 50$$

$$50 \div 10 = 5$$

$$10 \times 5 = 50$$

$$50 \div 5 = 10$$

2

Mentally: $\div 2$ $\div 5$ $\div 10$

2, 4, 6...

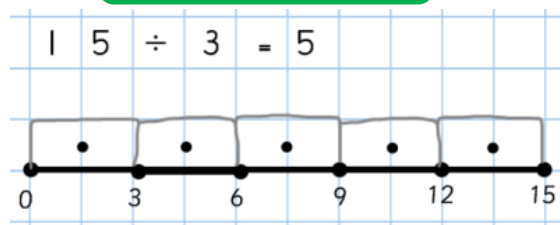
5, 10, 15...

10, 20, 30...

Divide using a number line

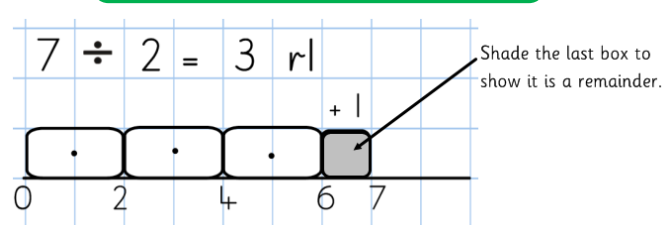
3

Number line: $\div 3$ $\div 4$



4

Number line with remainders



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.

Year 2

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

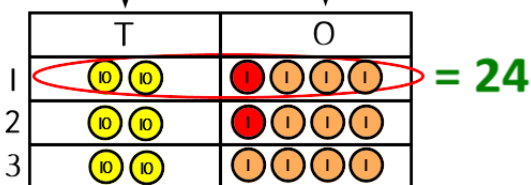
$72 \div 3$

1) Build the number



2) Share the tens

3) Share the ones



Exchange one ten for ten ones



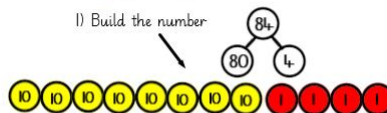
Divide using counters (sharing)

2

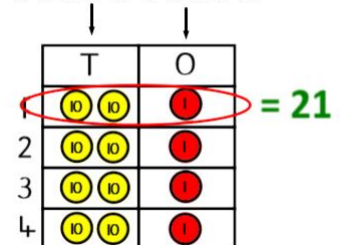
TO \div O No exchanging

$84 \div 4$

1) Build the number



2) Share the tens 3) Share the ones

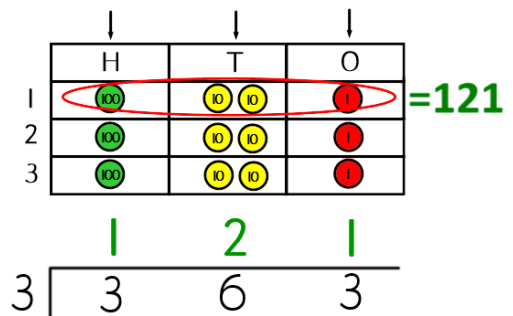


4

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

Recall multiplication and division facts for multiplication tables up to 12×12 and
To become fluent in the formal written method of short division.

Short division

1

No carrying

	2	4
2		4 8

2

Carrying

	1	5
3		4 15

3

Remainders

	1	8	r3
4		7 35	

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.

Year 4

Division

Key Objective

Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.

Short division

1 Remainder

$$\begin{array}{r} 267 \div 5 \\ \underline{053} \text{ r}2 \\ 5 \overline{) 267} \end{array}$$

2 Fraction remainder

$$\begin{array}{r} 267 \div 5 \\ \underline{053} \frac{2}{5} \\ 5 \overline{) 267} \end{array}$$

3 Decimal remainder

$$\begin{array}{r} 267 \div 5 \\ \underline{053.4} \\ 5 \overline{) 267.0} \end{array}$$

Long division

4 $\div 11$ and $\div 12$

$$3795 \div 11 = 345$$

$$\begin{array}{r} 0345 \\ 11 \overline{) 3795} \\ \underline{-33} \\ 49 \\ \underline{-44} \\ 55 \\ \underline{-55} \\ 0 \end{array}$$

Mental working out			
1	1	x	1 = 1 1
1	1	x	2 = 2 2
1	1	x	3 = 3 3
1	1	x	4 = 4 4
1	1	x	5 = 5 5

End with a
😊

5

OPTIONAL: Long division may be used as a scaffold with single digit divisors.

$$564 \div 3 =$$

$$\begin{array}{r} 188 \\ 3 \overline{) 564} \\ \underline{-3} \\ 26 \\ \underline{-24} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

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).

Year 5

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

$$3519 \div 23 = 153$$

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

$$= 153$$

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