

Key Objective

Show an interest in number problems.

Sharing

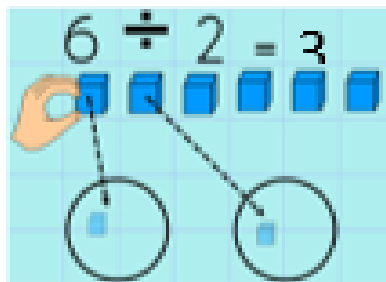
1

Sharing through play



2

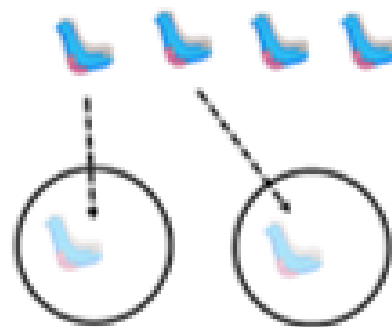
Using objects



"1 for you and 1 for you"

3

Using pictures



Key Vocabulary

share, share equally, one each, two each.

Nursery

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

2	6	7	÷	5
0	5	3		r2
5	2	6	7	

2 Fraction remainder

2	6	7	÷	5
0	5	3	$\frac{2}{5}$	
5	2	6	7	

3 Decimal remainder

2	6	7	÷	5
0	5	3	4	
5	2	6	7	.0

Long division

4 ÷11 and ÷12

$$5795 \div 11 = 526.8$$

0	5	2	6	8
11	1	7	9	5
-	3	2	1	
	4	4		
-		4	4	
		5	5	
-			5	5
				0

Handwriting aid

1	1	0	0	1	1
1	1	0	2	0	2
1	1	0	3	0	3
1	1	0	4	0	4
1	1	0	5	0	5

End with a ☺

5

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

$$564 \div 3 =$$

1	8	8	
3	5	0	4
-	3		
	2	6	
-	2	4	
		2	4

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

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

$$\underline{\text{£ } 2.34}$$

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

Long division

2 2-digit divisor

$$579 \div 23 = 25$$

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

$$\underline{25}$$

Model working out

23	\times	1	=	23
23	\times	2	=	46
23	\times	3	=	69
23	\times	4	=	92
23	\times	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

