

# Addition

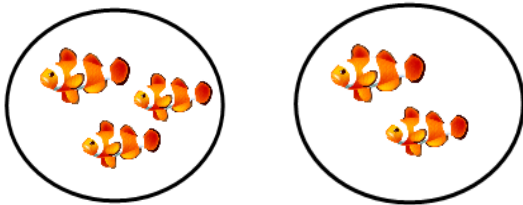
## Key Objective

Show an interest in number problems.

Combine 2 sets practically without number sentence

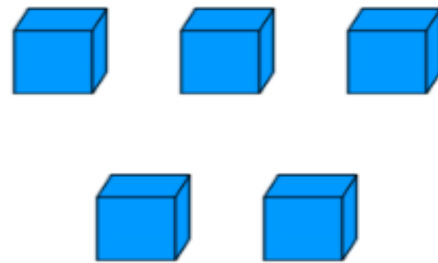
1

Using pictures



2

Using objects



## Key Vocabulary

add, more, and, make, altogether, count on.

# Nursery

# Addition

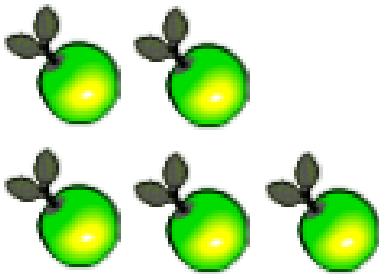
## Key Objective

Using quantities and objects, add two single-digit numbers and count on to find the answer.

Combine 2 sets with number sentence

1

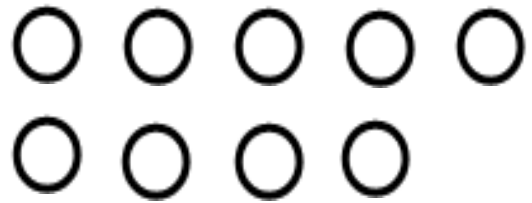
Using pictures



$$2 + 3 = 5$$

2

Drawing using symbols



$$5 + 4 = 9$$

## Key Vocabulary

add, more, plus, and, make, altogether, total, equal to, equals, most, count on.

# Reception

# Addition

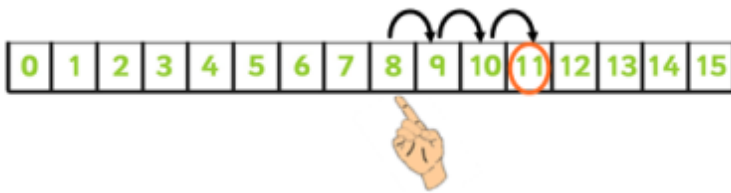
## Key Objective

Add one-digit and two-digit numbers to 20, including zero.

Counting on using a number track and number line

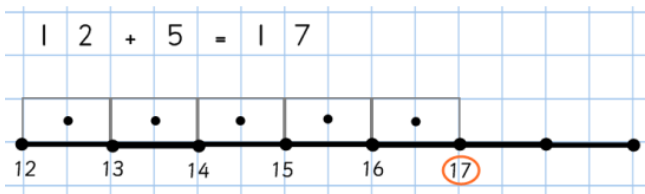
1

Number track:  $8 + 3 = 11$



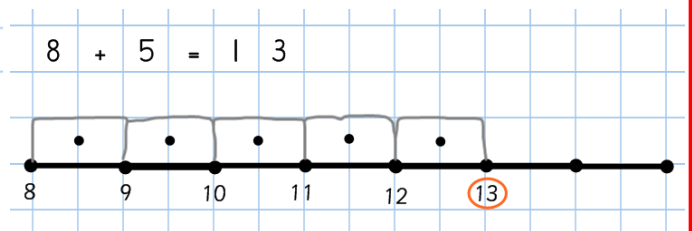
2

Guided number line:  $12 + 5 = 17$



3

Draw own number line:  $8 + 5 = 13$



## Key Vocabulary

add, more, plus, and, make, altogether, total, equal to, equals, the same as, double, most, count on, number line.

# Year 1

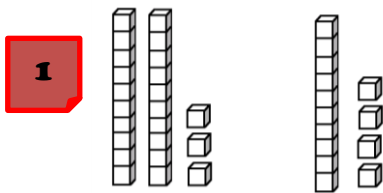
# Addition

## Key Objective

Add numbers using concrete objects, pictorial representations, and mentally, including:  
a 2-digit number and ones, and two 2-digit numbers

### Partitioning and recombining

#### Practical partitioning and recombining



#### Drawing partitioning and recombining



#### Recording partitioning and recombining

**3**

T	O	+	T	O	=	T	O
2	6	+	6	3	=	8	9
2	0	+	6	0	=	8	0
	6	+		3	=		9
8	0	+		9	=	8	9

#### Recording partitioning and recombining with bridging

**4**

T	O	+	T	O	=	T	O
3	7	+	4	5	=	8	2
3	0	+	4	0	=	7	0
	7	+		5	=	1	2
7	0	+	1	2	=	8	2

#### Short partitioning and recombining

**5**

2	6	+	3	9	=		
5	0	+	1	5	=	6	5

## Key Vocabulary

add, more, plus, and, make, altogether, total, equal to, equals, the same as, double, most, count on, number line, sums, tens, ones, partition, addition, column, tens boundary

# Year 2

# Addition

## Key Objective

Add numbers with up to three digits, using the formal written method of columnar addition

### Expanded column addition

1

TO + TO with brackets

5	4		
+	2	3	
-----			
	7	(4 + 3)	
7	0	(5 0 + 2 0)	
-----			
7	7		

2

TO + TO

	8	6
+	3	7
-----		
	1	3
1	1	0
-----		
1	2	3

3

HTO + HTO

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

### Compact column addition

4

No carrying

	2	1	6
+	1	5	3
-----			
	3	6	9
-----			

5

Carrying

	3	5	6
+	1	2	7
-----			
	4	8	3
-----			
			3
-----			
			3
-----			

Cross out once used!

## Key Vocabulary

add, more, plus, and, make, altogether, total, equal to, equals, the same as, double, most, count on, number line, sums, tens, ones, partition, addition, column, tens boundary, hundreds boundary, increase, carry, expanded, compact.

# Year 3

# Addition

## Key Objective

Add numbers with up to 4 digits using the formal written method of columnar addition where appropriate

### Compact column addition

1

THHTO + THHTO

	1	4	5	6
+	2	5	9	4
<hr/>				
	4	0	5	0
<hr/>				
	/	/	/	

/			
Cross out once used!			

2

Mixed amount of digits

	1	2	4	5
+		3	6	9
<hr/>				
	1	6	1	4
<hr/>				
		/	/	

/			
Cross out once used!			

## Key Vocabulary

add, more, plus, and, make, altogether, total, equal to, equals, the same as, double, most, count on, number line, sums, tens, ones, partition, addition, column, tens boundary, hundreds boundary, increase, carry, expanded, compact, thousands, digits, inverse.

# Year 4

# Addition

## Key Objective

Add whole numbers with more than 4 digits, including using the formal written method of columnar addition

### Compact column addition

1

5-digits +

$$\begin{array}{r}
 19456 \\
 + 25594 \\
 \hline
 45050
 \end{array}$$

~~1~~  
Cross out once used!

2

Mixed amount of digits

Add place holder →

$$\begin{array}{r}
 52456 \\
 + 07283 \\
 \hline
 59739
 \end{array}$$

3

Adding decimals

$$\begin{array}{r}
 17.98 \\
 + 24.63 \\
 \hline
 42.61
 \end{array}$$

~~1~~  
Cross out once used!

## Key Vocabulary

add, more, plus, and, make, altogether, total, equal to, equals, the same as, double, most, count on, number line, sums, tens, ones, partition, addition, column, tens boundary, hundreds boundary, increase, carry, expanded, compact, thousands, digits, inverse, decimal place, decimal point, tenths, hundredths, thousandths, integer.

# Year 5

# Addition

## Key Objective

Add whole numbers with more than 4 digits, including using the formal written method of columnar addition

## Compact column addition

1

Increasingly large numbers

	7	8	9	6	8	4
+		6	5	5	3	9
<hr/>						
	8	5	5	2	2	3
	<del>+</del>	<del>+</del>	<del>+</del>	<del>+</del>	<del>+</del>	

<del>+</del>
--------------

Cross out once used!

2

Adding decimals with mixed amount of digits

	1	6	·	3	9	0
+		3	·	7	2	5
<hr/>						
	2	0	·	1	1	5
	<del>+</del>	<del>+</del>	<del>+</del>			

→ Add place holder

<del>+</del>
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Cross out once used!

## Key Vocabulary

add, more, plus, and, make, altogether, total, equal to, equals, the same as, double, most, count on, number line, sums, tens, ones, partition, addition, column, tens boundary, hundreds boundary, increase, carry, expanded, compact, thousands, digits, inverse, decimal place, decimal point, tenths, hundredths, thousandths, integer.

# Year 6