

Addition

ELG: Number

- Have a deep understanding of number to 10, including the composition of each number; 14
- Subitise (recognise quantities without counting) up to 5;
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.

ELG: Numerical Patterns

- Verbally count beyond 20, recognising the pattern of the counting system;
- Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity;
- Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

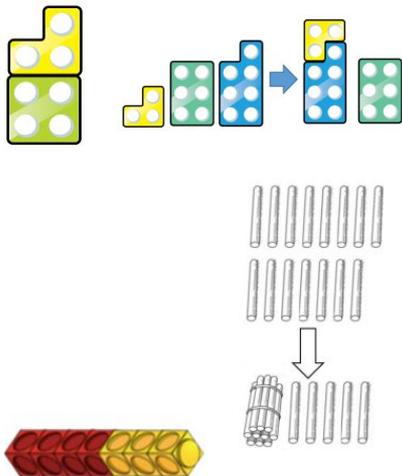
End of year 2

- Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100

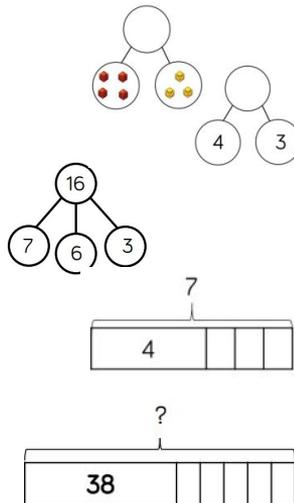
Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:

- a two-digit number and ones
- a two-digit number and tens
- two two-digit numbers
- adding three one-digit numbers

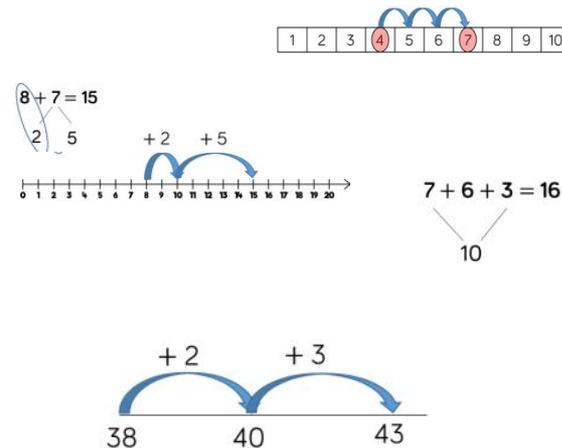
Manipulatives



Bar models and part whole models.



Written methods



Subtraction

ELG: Number

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ELG: Numerical Patterns

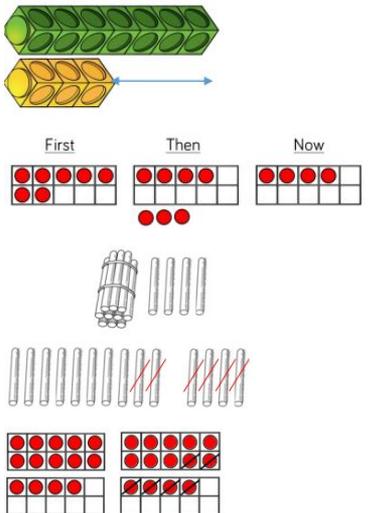
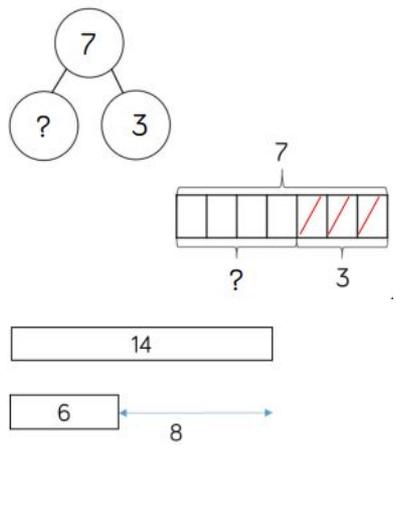
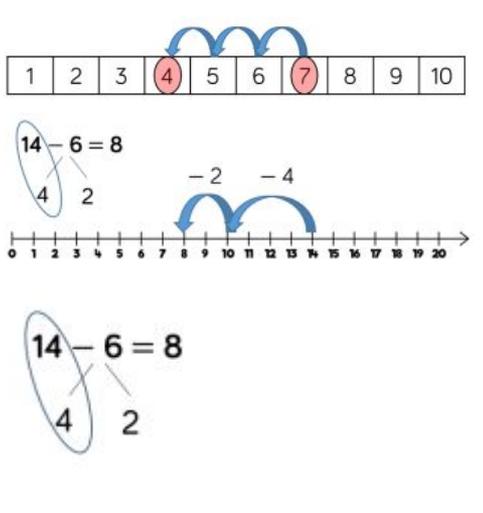
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End of year 2

- Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100

Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:

- a two-digit number and ones
- a two-digit number and tens
- two two-digit numbers
- adding three one-digit numbers

	Manipulatives	Bar models and part whole models.	Written methods
	 <p style="text-align: center;">First Then Now</p>		

Addition

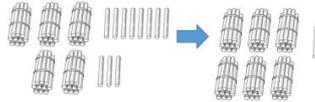
End of year 4

Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.

Add and subtract numbers mentally, including:

- a four -digit number and ones
- a four -digit number and tens
- a four -digit number and hundreds
- a four -digit number and thousands

Manipulatives

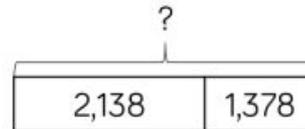
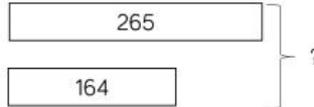
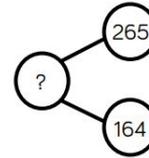
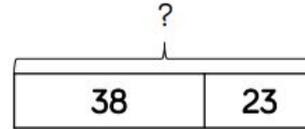
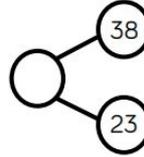


Hundreds	Tens	Ones
● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●
●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●
●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●

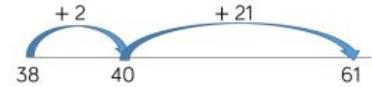
Tens	Ones
	● ● ● ● ● ● ● ●
	● ● ● ● ● ● ● ●

Thousands	Hundreds	Tens	Ones
■	■ ■ ■ ■ ■ ■ ■ ■		● ● ● ● ● ● ● ●
■	■ ■ ■ ■ ■ ■ ■ ■		● ● ● ● ● ● ● ●

Bar models and part whole models.



Written methods



$$\begin{array}{r} 38 \\ + 23 \\ \hline 61 \\ 1 \end{array}$$

$$\begin{array}{r} 265 \\ + 164 \\ \hline 429 \\ 1 \end{array}$$

1	3	7	8
+	2	1	4
<hr/>			
3	5	2	6
		1	1

Subtraction

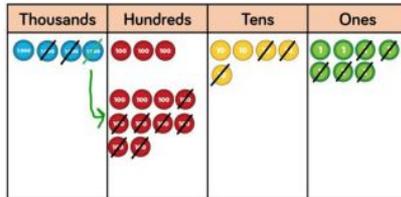
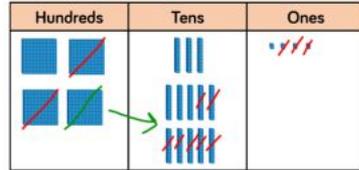
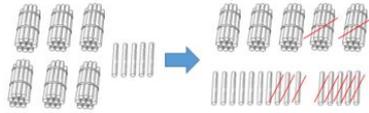
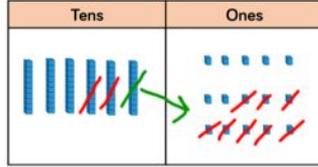
End of year 4

Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.

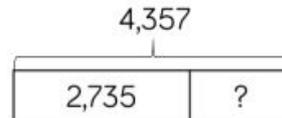
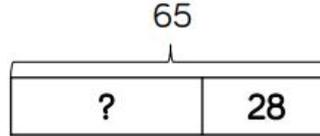
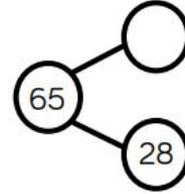
Add and subtract numbers mentally, including:

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- a four -digit number and tens
- a four -digit number and hundreds
- a four -digit number and thousands

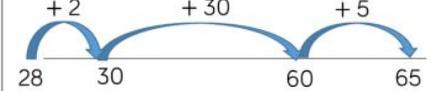
Manipulatives



Bar models and part whole models.



Written methods



$$\begin{array}{r} 5 \ 1 \\ 65 \\ - 28 \\ \hline 37 \end{array}$$

$$\begin{array}{r} 3 \ 1 \\ 435 \\ - 273 \\ \hline 162 \end{array}$$

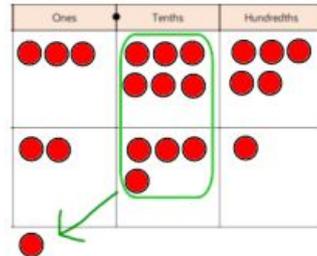
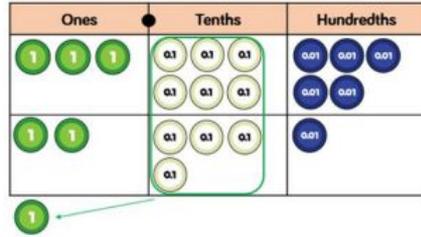
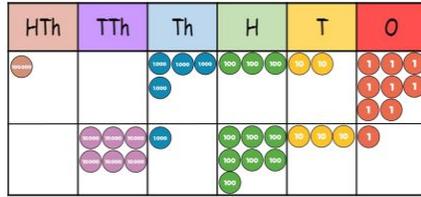
$$\begin{array}{r} 3 \ 1 \\ 4357 \\ - 2735 \\ \hline 1622 \end{array}$$

Addition

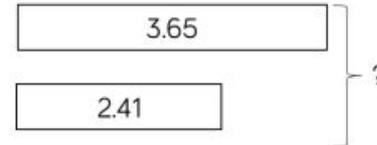
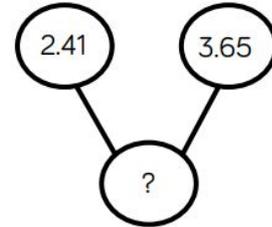
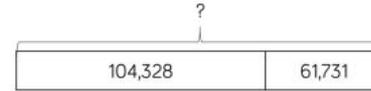
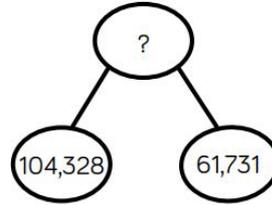
End of year 6

- Decimal addition and subtraction up to two decimal places.
- Integers subtract a decimal with one decimal place e.g. $7 - 2.5$ or $7 - 0.1$
- Perform mental calculations, including with mixed operations and large numbers

Manipulatives



Bar models and part whole models.



Written methods

1	0	4	3	2	8
+	6	1	7	3	1
1	6	6	0	5	9

1

$$\begin{array}{r}
 3.65 \\
 + 2.41 \\
 \hline
 6.06 \\
 \hline
 \end{array}$$

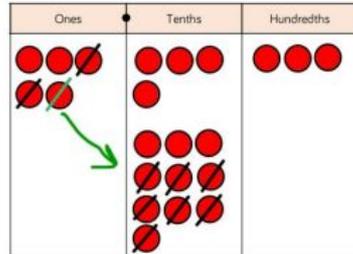
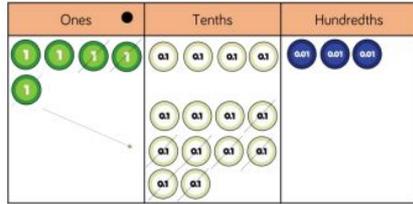
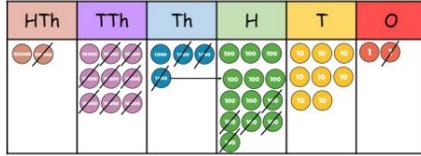
1

Subtraction

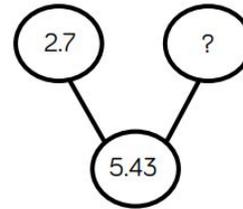
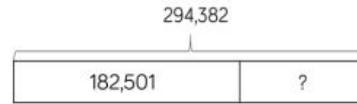
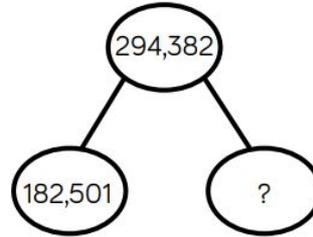
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Manipulatives



Bar models and part whole models.



Written methods

	2	9	3	¹ 3	8	2
-	1	8	2	5	0	1
	1	1	1	8	8	1

$$\begin{array}{r}
 4 \ 1 \\
 5.43 \\
 - 2.7 \\
 \hline
 2.73
 \end{array}$$