

# Year 3 Maths Evening

Fluency

Reasoning

Standard Written Methods:-

Addition  
Subtraction

Concrete

Pictorial

Abstract

# Fluency




Counting forwards and backwards in 100s

**Count forwards and backwards in 10s  
from any 3-digit number**

Counting forwards and backwards in 4s  
from any 3-digit number

# Reasoning

Captain Conjecture says 'The number in the place value grid is the largest 3-digit number you can make using all 10 counters.'

100s	10s	1s
		

Do you agree?

Explain your reasoning.



For positive integers are the following statements always, sometimes or never true?

- The sum of 2 odd numbers is even.
- The sum of 3 odd numbers is even.
- Adding 5 to a number ending in 6 will sum to a number ending in 1.
- Adding 8 to a number ending in 2 will always sum to a multiple of 10.

Explain why in each case.

Sophie has five coins in her pocket. How much money might she have?

What is the greatest amount she can have?

What is the least amount she can have?

If all the coins are different:

What is the greatest amount she can have?

What is the least amount she can have?

## Number – addition and subtraction

### Statutory requirements

Pupils should be taught to:

- add and subtract numbers mentally, including:
  - a three-digit number and ones
  - a three-digit number and tens
  - a three-digit number and hundreds
- add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
- estimate the answer to a calculation and use inverse operations to check answers
- solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

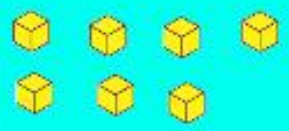
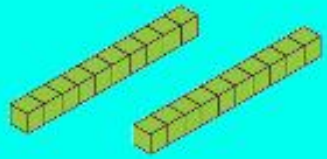
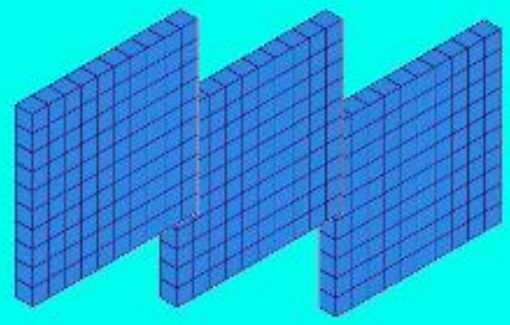
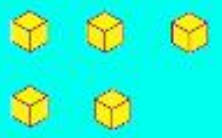
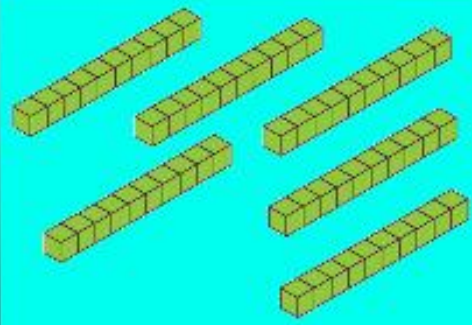
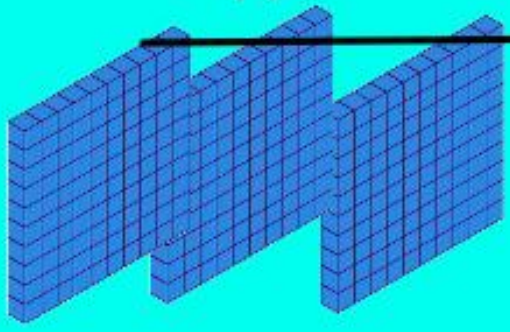
Addition

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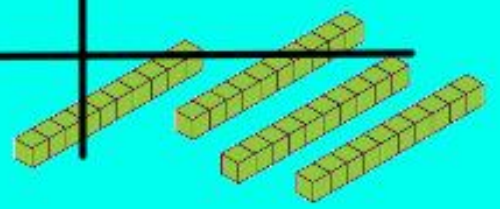
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$$\begin{array}{r} 365 \\ + 327 \\ \hline \hline \end{array}$$



Using  
practical  
apparatus



# Addition

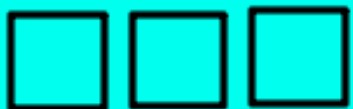
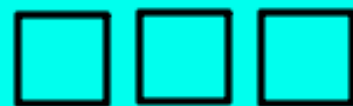
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Pictorally

$$\begin{array}{r} 365 \\ + 327 \\ \hline \\ \hline \end{array}$$



Add together  
and exchange

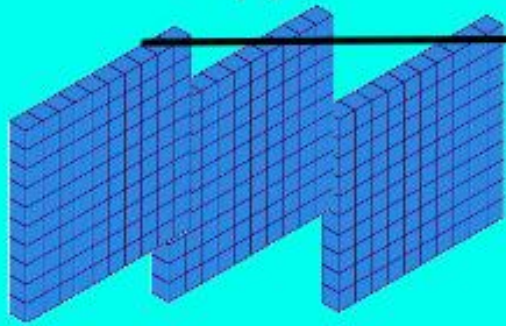


Abstract

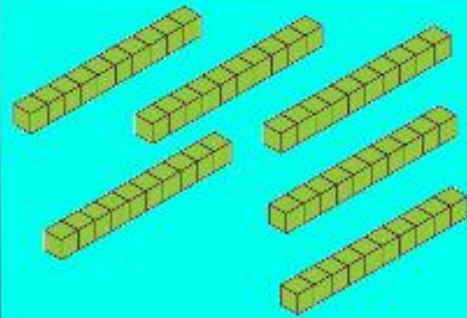
$$\begin{array}{r} 267 \\ + 254 \\ \hline 521 \\ \hline 11 \end{array}$$

# Subtraction

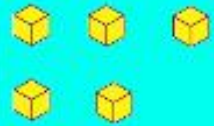
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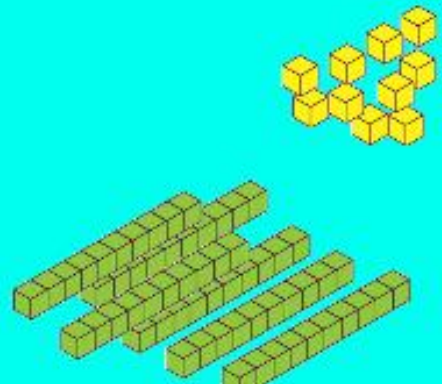


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$$\begin{array}{r} 365 \\ - 127 \\ \hline \\ \hline \end{array}$$

Using  
practical  
apparatus

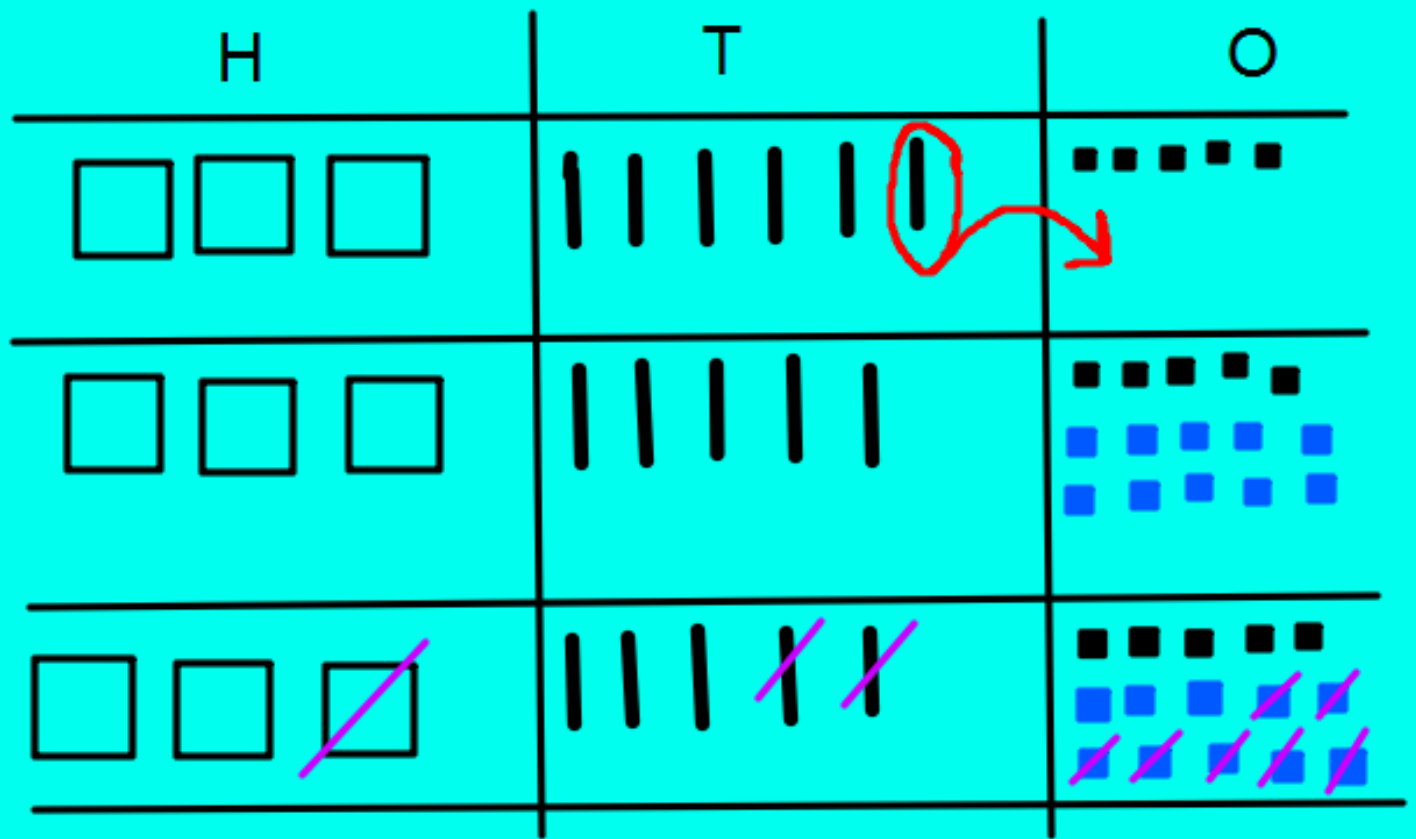




Subtraction

Pictorally

$$\begin{array}{r} 365 \\ - 127 \\ \hline 248 \end{array}$$

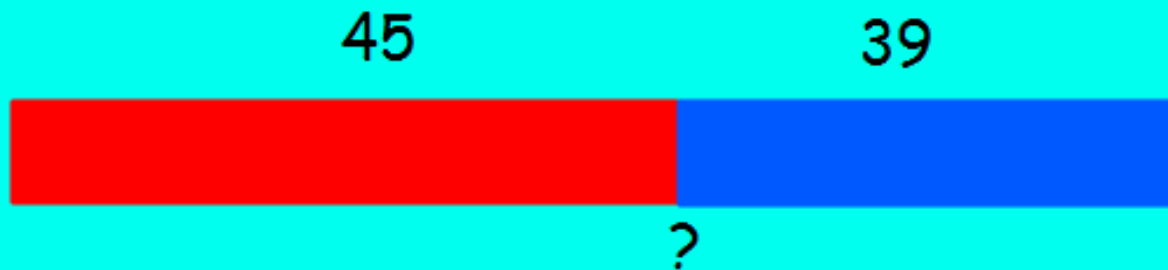


Abstract

$$\begin{array}{r} 342 \\ - 154 \\ \hline \hline \end{array}$$

## Bar Modelling

Sam has 45 stamps. His father gave him 39 stamps. How many stamps did Sam have?



Hannah baked 400 tarts. She gave 270 tarts away. How many tarts did she have left?

