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# Chilli Challenge

Addition, Subtraction, Multiplication and Division



Addition, Subtraction, Multiplication and Division

Nice and Spicy!



## Calculating

**Estimate the answer to a calculation and use inverse operations to check answers**

What calculation could you use to estimate:

$$72 + 63 =$$

$$47 - 18 =$$

What calculation would you use to check:

$$82 - 45 = 37$$

Addition, Subtraction, Multiplication and Division

Nice and Spicy!



## Solving Problems

**Solve problems, including missing number problems, using number facts and place value**

Complete the calculation:  $\_\_\_\_1 + 3\_\_\_\_ = 57$

A number has two digits and is a multiple of five. The total of the digits is nine.

What could the number be?

Addition, Subtraction, Multiplication and Division

Nice and Spicy!



## Solving Problems

**Solve problems, including missing number problems, involving multiplication and division**

Complete the calculation:  $\_\_\_\_ \times 5 = 45$

Three boxes of pencils contain 36 pencils.

How many pencils will there be in each box?



## Methods

Add and subtract numbers with support of models or images, including:

- a three-digit number and ones
- a three-digit number and tens
- a three-digit number and hundreds;



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$134 + 3 =$

$276 - 5 =$

$246 + 30 =$

$128 - 40 =$

$509 + 300 =$

$641 - 200 =$



## Methods

Add and subtract numbers with up to three digits, using simple formal written methods of columnar addition and subtraction

$$\begin{array}{r} 424 \\ + 63 \\ \hline \end{array}$$

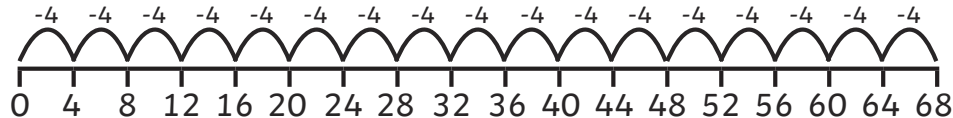
$$\begin{array}{r} 197 \\ - 44 \\ \hline \end{array}$$



## Methods

Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using the support of models and images

$68 \div 4 =$



## Number Facts

Recall and use multiplication and division facts for the three and four multiplication tables

$8 \times 3 =$

$32 \div 4 =$

$6 \times 4 =$

$27 \div 3 =$

$7 \times 3 =$

$48 \div 4 =$

$8 \times 4 =$

$24 \div 4 =$

$4 \times 9 =$

$18 \div 3 =$

## Calculating

**Estimate the answer to a calculation and use inverse operations to check answers**

Which calculation could you use to estimate:

$$292 + 163 =$$

$$207 - 87 =$$

Which calculation would you use to check:

$$382 - 45 = 337$$



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## Number Facts

**Recall and use multiplication and division facts for the three and four and eight multiplication tables**

$$8 \times 3 =$$

$$32 \div 4 =$$

$$6 \times 4 =$$

$$27 \div 3 =$$

$$7 \times 3 =$$

$$48 \div 8 =$$

$$8 \times 8 =$$

$$24 \div 4 =$$

$$4 \times 9 =$$

$$72 \div 8 =$$

## Solving Problems

**Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction**

Complete the calculation:  $2\_\_\_\_1 + \_\_\_\_37 = 41\_\_\_\_$

A number has three digits and is a multiple of five. All the digits are odd and the total of the digits is nine. What could be the number?

## Solving Problems

**Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects**

Complete the calculation:  $\_\_\_\_7 \times 5 = 18\_\_\_\_$

Three boxes contain 15 tennis balls. How many balls will there be in two boxes?

## Methods

Add and subtract numbers mentally, including:

- a three-digit number and ones
- a three-digit number and tens
- a three-digit number and hundreds;



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$134 + 3 =$

$276 - 5 =$

$246 + 30 =$

$128 - 40 =$

$509 + 300 =$

$641 - 200 =$

## Methods

Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction

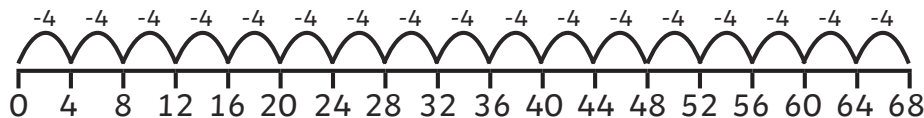
$$\begin{array}{r} 484 \\ + 67 \\ \hline \end{array}$$

$$\begin{array}{r} 197 \\ - 48 \\ \hline \end{array}$$

## Methods

Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods

$68 \div 4 =$





## Calculating

**Estimate the answer to a calculation and use inverse operations to check answers**

Explain why you might use  $300 + 150$  as an estimate of  $292 + 163 =$

What would you use to estimate  $207 - 87 =$  and explain your reasoning.



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Explain with an example why you can use an inverse calculation to



## Number Facts

**Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables**

$$8 \times 30 =$$

$$320 \div 4 =$$

$$60 \times 4 =$$

$$27 \div 3 =$$

$$7 \times 300 =$$

$$480 \div 80 =$$

$$80 \times 80 =$$

$$2400 \div 4 =$$

$$400 \times 9 =$$

$$720 \div 8 =$$



## Solving Problems

**Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction**

Complete the calculation:  $1 \underline{\quad} + 3 \underline{\quad} 7 = 4 \underline{\quad}$

A number has three digits, is greater than 500 and is a multiple of three. All the digits are even, none repeat and there are no 0s. The number of hundreds is equal to the number of tens and ones. What could be the number?



## Solving Problems

**Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which  $n$  objects are connected to  $m$  objects**

Complete the calculation, writing an explanation of how you found the missing digits:

$$\underline{\quad} 7 \times 8 = 29 \underline{\quad}$$

Seven bags of apples contain 56 apples. How many apples will there be in three bags of apples?



## Methods

Add and subtract numbers mentally, including:

- a three-digit number and ones
- a three-digit number and tens
- a three-digit number and hundreds;



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Count forwards or backwards fluently from any three-digit number in ones, tens or hundreds



## Methods

Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction

Write an explanation of columnar addition or subtraction using an example.



## Methods

Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and formal written methods

$85 \times 6 =$

$80 \times 6 = 480$

$$\begin{array}{r} 85 \\ \times \quad 6 \\ \hline \end{array}$$