# Calculation Policy for 

## Mathematics



Federated Primary Schools

## How we teach calculations

## March 2015

## About our Calculation Policy

The following calculation policy has been devised to meet requirements of the National Curriculum 2014 for the teaching and learning of mathematics, and is also designed to give pupils a consistent and smooth progression of learning in calculations across the school. Please note that early learning in number and calculation in Reception follows the 'Development Matters' EYFS document, and this calculation policy is designed to build on progressively from the content and methods established in the Early Years Foundation Stage.

## Age stage expectations

The calculation policy is organised according to age stage expectations as set out in the National Curriculum 2014, however it is vital that pupils are taught according to the stage that they are currently working at, being moved onto the next level as soon as they are ready, or working at a lower stage until they are secure enough to move on.

## Providing a context for calculation:

It is important that, after any type of calculation has been taught, children are given a range of opportunities to apply these skills in real life meaningful contexts and problem solving activities. (Making purposeful links to other areas of the curriculum where appropriate.) This will help build children's understanding of the purpose of calculation, and to help them recognise when to use certain operations and methods. Children should be able to explain how they have solved the problem/calculation and estimate whether their answer is likely to be correct (reasoning).

## Choosing a calculation method:

Children need to be taught and encouraged to use the following processes in deciding what approach they will take to a calculation, to ensure they select the most appropri-



## Reception

Reception addition should be taught through play as much as possible and using practical objects. Any directed teaching should be reinforced through own learning time and the environment should provide opportunities for the children to practice what they have learnt.

- Count objects saying 1 name for each object
- Count the total number of objects
- Count one more using objects
- Count/add objects/pictures that don't move
- Draw their own pictures to solve an addition problem
- Count forwards and backwards on a number track
- Using head and finders-put the largest number in your head and count on using your fingers.


## Year 1 Add with numbers up to 20

(When the children are secure counting forwards and backwards using number tracks within the context of games they would then move on to using number lines.)

Use numbered number lines to add, by counting on in ones. Encourage children to start with the larger number and count on.

## Children should:

- Have access to a wide range of counting equipment, everyday objects, number tracks and number lines, and be shown numbers in different contexts.
- Read and write the addition (+) and equals (=) signs within number sentences.
- Interpret addition number sentences and solve missing box problems, using concrete objects and number line addition
$8+3=$ $\qquad$ $15+4=$$5+3+1=$+ $\square=6$

This builds on from prior learning of adding by combining two sets of objects into one group ( 5 cubes and 3 cubes) in Early Years by counting on, as opposed to counting all.

- Number facts to 20


The children also need to be introduced to the concepts of

- Reordering numbers

5+9= becomes 9+5=

- Bridging 10
$9+5$ becomes $9+1+4=$
- Compensating
$8+9=$ becomes $8+10-1=$
- Near doubles

8+9= becomes $8+8+1=$

- Using knowledge of pairs to 10

17+3= becomes 7+3+10=
These concepts need to be revisited and increased in challenge at every stage of calculation.

Key vocabulary: add, more, plus, and, make, altogether, total, equal to, equals, double, most, count on, number line

Key skills for addition at Y 1 :

- Read and write numbers to 100 in numerals, incl. 1-20 in words
- Recall bonds to 10 and 20, and addition facts within 20
- Count to and across 100
- Count in multiples of 12,5 and 10
- Solve simple 1-step problems involving addition, using objects, number lines and pictorial representations.


STEP 2: Once children can add a multiple of ten to a 2-digit number mentally (e.g. 80+11), they are ready for adding pairs of 2-digit numbers that DO cross the tens boundary (e.g. $58+43$ ).
$38+26=$
$30+20=50$
$8+6=14$
$50+10+4=64$


## Year 2 Progressing to column methods

Not crossing 10s boundary

$$
23+34:
$$



Crossing 10s boundary
$58+43:$


To support understanding, pupils may physically make and carry out the calculation with Dienes Base 10 apparatus or place value counters, then compare their practical version to the written form, to help them to build an understanding of it.

## Key vocabulary:

add, more, plus, and, make, altogether, total, equal to, equals, double, most, count on, number line, sum, tens, units, partition, addition, column, tens boundary

## Key skills for addition at Y2:

- $\quad$ Add a 2-digit number and ones (e.g. $27+6$ )
- Add a 2-digit number and tens (e.g. $23+40$ )
- Add pairs of 2-digit numbers (e.g. $35+47$ )
- Add three single-digit numbers (e.g. $5+9+7$ )
- $\quad$ Show that adding can be done in any order (the commutative law).
- Recall bonds to 20 and bonds of tens to 100 ( $30+70$ etc.)
- Count in steps of 2,3 and 5 and count in tens from any number.
- Understand the place value of 2-digit numbers (tens and ones)
- Compare and order numbers to 100 using < > and = signs.
- Read and write numbers to at least 100 in numerals and words.


Key vocabulary: add, more, plus, and, make, altogether, total, equal to, equals, double, most, count on, number line, sum, tens, units, partition, plus, addition, column, tens boundary, hundreds boundary. increase, vertical, 'carry', expanded, compact

## Key skills for addition at Y 3 :

- Read and write numbers to 1000 in numerals and words.
- Add 2-digit numbers mentally, incl. those exceeding 100.
- Add a three-digit number and ones mentally $(175+8)$
- Add a three-digit number and tens mentally $(249+50)$
- Add a three-digit number and hundreds mentally (381 + 400)
- Estimate answers to calculations, using inverse to check answers.
- Solve problems, including missing number problems, using
- number facts, place value, and more complex addition.
- Recognise place value of each digit in 3 -digit numbers (hundreds, tens, ones.)
- Continue to practise a wide range of mental addition strategies, ie. number bonds, adding the nearest multiple of $10,100,1000$ and adjusting, using near doubles, partitioning and recombining.


Year 3 Add numbers with up to 3-digits

If a child is forgetting to add the numbers that they have carried, the compact method will be adapted as follows.


The children will need to leave a line underneath the question, So that there is space to store the numbers that have been carried.

PLEASE NOTE: This method may also be used by children when adding larger numbers or decimal numbers.


Key vocabulary: add, more, plus, and, make, altogether, total, equal to, equals, double, most, count on, number line, sum, tens, units, partition, plus, addition, column, tens boundary, hundreds boundary, increase, vertical, 'carry', expanded, compact, thousands, hundreds, digits, inverse

Key skills for addition at Y4:

- Select most appropriate method: mental, jottings or written and explain why.
- Recognise the place value of each digit in a four-digit number.
- Round any number to the nearest 10,100 or 1000.
- Estimate and use inverse operations to check answers.
- Solve 2-step problems in context, deciding which operations and methods to use and why.
- Find 1000 more or less than a given number.
- Continue to practise a wide range of mental addition strategies, ie. number bonds, add the nearest multiple of $10,100,1000$ and adjust, use near doubles, partitioning and recombining.
- Add numbers with up to 4 digits using the formal written method of column addition - $\quad$ Solve 2-step problems in contexts, deciding which operations and methods to use and why.
- Estimate and use inverse operations to check answers to a calculation.


## Year 5 Add numbers with more than 4 digits

including money, measures and decimals with different numbers of decimal places.


The decimal point should be aligned in the same way as the other place value columns, and must remain in the same column in the answer row.

Numbers should exceed 4 digits.


Key vocabulary: add, more, plus, and, make, altogether, total, equal to, equals, double, most, count on, number line, sum, tens, units, partition, plus, addition, column, tens boundary, hundreds boundary, increase, 'carry', expanded, compact, vertical, thousands, hundreds, digits, inverse \& decimal places, decimal point, tenths, hundredths, thousandths

## Key skills for addition at Y 5 :

- Add numbers mentally with increasingly large numbers, using and practising a range of mental strategies ie. add the nearest multiple of $10,100,1000$ and adjust; use near doubles, inverse, partitioning and re-combining; using number bonds.
- Use rounding to check answers and accuracy.
- Solve multi-step problems in contexts, deciding which operations and methods to use and why.
- Read, write, order and compare numbers to at least 1 million and determine the value of each digit.
- Round any number up to $1,000,000$ to the nearest $10,100,1000,10,000$ and 100,000 .
- Add numbers with more than 4 digits using formal written method of columnar addition.


Key vocabulary: add, more, plus, and, make, altogether, total, equal to, equals, double, most, count on, number line, sum, tens, units, partition, plus, addition, column, tens boundary, hundreds boundary, increase, 'carry', expanded, compact, vertical, thousands, hundreds, digits, inverse, decimal places, decimal point, tenths, hundredths, thousandths

## Key skills for addition at Y6:

- Perform mental calculations, including with mixed operations and large numbers, using and practising a range of mental strategies.
- Solve multi-step problems in context, deciding which operations and methods to use and why.
- Use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.
- Read, write, order and compare numbers up to 10 million and determine the value of each digit.
- Round any whole number to a required degree of accuracy.
- Pupils understand how to add mentally with larger numbers and calculations of increasing complexity.


## Reception

Reception subtraction should be taught through play as much as possible and using practical objects. Any directed teaching should be reinforced through own learning time and the environment should provide opportunities for the children to practice what they have learnt.

- Count objects saying 1 name for each object
- Count one less using objects
- Count out up to 6 objects from a larger group
- Count/add objects/pictures that don't move
- Draw their own pictures to solve an addition problem
- Count forwards and backwards on a number track
- Using head and fingers-put the largest number in your head and count back using your fingers.


## Year 1

## Subtract from numbers up to 20

Children consolidate understanding of subtraction practically, showing subtraction on bead strings, using cubes etc. and in familiar contexts, and are introduced to more formal recording using number lines as below:


Key vocabulary: equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer / less than, most, least, count back, how many left, how much less is_?

## Key skills for subtraction at V 1 :

- Given a number, say one more or one less.
- Count to and over 100, forward and back, from any number.
- Represent and use subtraction facts to 20 and within 20.
- Subtract with one-digit and two-digit numbers to 20 , including zero.
- Solve one-step problems that involve addition and subtraction, using concrete objects (ie bead string, objects, cubes) and pictures, and missing number problems.
- Read and write numbers from 0 to 20 in numerals and words.



Year 2
Mental strategy - subtract numbers close together by counting on:

Many mental strategies are taught. Children are taught to recognise that when numbers are close together, it is more efficient to count on the difference. They need to be clear about the relationship between addition and subtraction because 38+4=42.

$$
42-38=4
$$

- Counting on al

|  |  |  | $r$ subtraction |
| :--- | :--- | :--- | :--- | :--- |
| +1 | +1 | +1 | ing up on a number | line.



Subtraction of 2 and 3-digit numbers (introduction of partitioned column subtraction)

## Step 1 A

Partition the tens and units and subtract as a number sentence 89-35= $80-30=50$
9-5=4
50+4=54

Step 2
Move towards more standard method. Introduce this method with examples where no exchanging is required. $89-35=54$
Condense this step by subtracting all of the tens from the first number then the units.
89-35=
$89-30=59$
59-5=54
$80+9$
$\frac{-30+5}{50+4}$



## Year 3

## Counting on as a mental strategy

Continue to reinforce counting on as a strategy for close-together numbers and also for numbers that are nearly multiples of 10,100 and 1000 of £s,

$$
82-47=
$$


102-89=


Key vocabulary: equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer / less than, most, least, count back, how many left, how much less is_? difference, count on, strategy, partition, tens, units exchange, decrease,
hundreds, value, digit
Key skills for subtraction at Y3:

- Subtract mentally a: 3-digit number and ones, 3-digit number and tens, 3-digit number and hundreds.
- Estimate answers and use inverse operations to check.
- Solve problems, including missing number problems.
- Find 10 or 100 more or less than a given number.
- Recognise the place value of each digit in a 3-digit number .
- Counting up differences as a mental strategy when numbers are close together or near multiples of 10 (see examples above)
- Read and write numbers up to 1000 in numerals and words.
- Practise mental subtraction strategies, such as subtracting near multiples of 10 and adjusting (e.g. subtracting 19 or 21), and select most appropriate methods to subtract, explaining why.


Key vocabulary: equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer / less than, most, least, count back, how many left, how much less is_? difference, count on, strategy, partition, tens, units exchange, decrease, hundreds, value, digit, inverse

## Key skills for subtraction at y4:

- Subtract by counting on where numbers are close together or they are near to multiples of 10,100 etc.
- Children select the most appropriate and efficient methods for given subtraction calculations.
- Estimate and use inverse operations to check answers.
- Solve addition and subtraction 2-step problems, choosing which operations and methods to use and why.
- Solve simple measure and money problems involving fractions and decimals to two decimal places.
- Find 1000 more or less than a given number.
- Count backwards through zero, including negative numbers.
- Recognise place value of each digit in a 4-digit number Round any number to the nearest 10,100 or 1000
- Solve number and practical problems that involve the above, with increasingly large positive numbers.



## Key skills for subtraction at Y 5 :

- Subtract numbers mentally with increasingly large numbers .
- Use rounding and estimation to check answers to calculations and determine, in a range of contexts, levels of accuracy.
- Solve addition and subtraction multi-step problems in context, deciding which operations and methods to use and why.
- Read, write, order and compare numbers to at least 1 million and determine the value of each digit.
- Count forwards or backwards in steps of powers of 10 for any given number up to 1 million.
- Interpret negative numbers in context, counting forwards and backwards with positive and negative integers through zero.
- Round any number up to 1 million to the nearest $10,100,1000,10,000$ and 100,000 .
 back, how many left, how much less is_? difference, count on, strategy, partition, tens, units exchange, decrease, hundreds, value, digit, inverse, tenths, hundredths, decimal point, decimal
Key skills for subtraction at Y6:
- Solve addition and subtraction multi-step problems in context, deciding which operations and methods to use and why.
- Read, write, order and compare numbers up to 10 million and determine the value of each digit
- Round any whole number to a required degree of accuracy
- Use negative numbers in context, and calculate intervals
- across zero.
- Children need to utilise and consider a range of mental subtraction strategies, jottings and written methods before choosing how to calculate.


Key vocabulary: groups of, lots of, times, array, altogether, multiply, count
Key skills for multiplication at $\mathrm{Y}_{1}$ :
Count in multiples of 2,5 and 10 .
Solve one-step problems involving multiplication, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.
Make connections between arrays, number patterns, and counting in twos, fives and tens.
Begin to understand doubling using concrete objects and pictorial representations.


Key vocabulary: groups of, lots of, times, array, altogether, multiply, count, multiplied by, repeated addition, column, row, commutative, sets of, equal groups, times as big as, once, twice, three times...
Key skills for multiplication at Y2:

- Count in steps of 2,3 and 5 from zero, and in 10s from any number.
- Recall and use multiplication facts from the 2,5 and 10 multiplication tables, including recognising odds and evens.
- Write and calculate number statements using the $x$ and $=$ signs.
- Show that multiplication can be done in any order (commutative).
- Solve a range of problems involving multiplication, using concrete objects, arrays, repeated addition, mental methods, and multiplication facts.
- Pupils use a variety of language to discuss and describe multiplication.


Key vocabulary: groups of, lots of, times, array, altogether, multiply, count, multiplied by, repeated addition, column, row, commutative, sets of, equal groups, times,_times as big as, once, twice, three times..., partition, grid method, multiple, product, tens, units, value

## Key skills for multiplication:

- Recall and use multiplication facts for the 2, 3, 4, 5, 8 and 10 multiplication tables, and multiply multiples of 10 .
- Write and calculate number statements using the multiplication tables they know, including 2-digit $x$ single digit, drawing upon mental methods, and progressing to reliable written methods.
- Solve multiplication problems, including missing number problems.
- Develop mental strategies using commutativity (e.g. $4 \times 12 \times 5=4 \times 5 \times 12=20 \times 12=240$ )
- Solve simple problems in contexts, deciding which operations and methods to use.
- Develop efficient mental methods to solve a range of problems e.g using commutativity ( $4 \times 12 \times 5=$ $4 \times 5 \times 12=20 \times 12=240$ ) and for missing number problems $\quad$ a $\times 5=20, \quad 3 \times$ 回 $=18, \quad$ a $\times$ 国 $=32$


Key vocabulary: groups of, lots of, times, array, altogether, multiply, count, multiplied by, repeated addition, array, column, row, commutative, groups of, sets of, lots of, equal groups, times, multiply, times as big as, once, twice, three times... partition, grid method, total, multiple, product, sets of, inverse

## Key skills for multiplication at Y4:

- Count in multiples of $6,7,9,25$ and 1000
- Recall multiplication facts for all multiplication tables up to $12 \times 12$.
- Recognise place value of digits in up to 4-digit numbers
- Use place value, known facts and derived facts to multiply mentally, e.g. multiply by $1,10,100$, by 0 , or to multiply 3 numbers.
- Use commutativity and other strategies mentally $3 \times 6=6 \times 3,2 \times 6 \times 5=10 \times 6,39 \times 7=30 \times 7+9 \times 7$.
- Solve problems with increasingly complex multiplication in a range of contexts.
- Count in multiples of $6,7,9,25$ and 1000
- Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and units)


Key vocabulary groups of, lots of, times, array, altogether, multiply, count, multiplied by, repeated addition, column, row, commutative, sets of, equal groups, _times as big as, once, twice, three times..., partition, grid method, total, multiple, product, inverse, square, factor, integer, decimal, short/long multiplication, 'carry'

## Key skills for multiplication at Y 5 :

Identify multiples and factors, using knowledge of multiplication tables to $12 \times 12$.
Solve problems where larger numbers are decomposed into their factors
Multiply and divide integers and decimals by 10, 100 and 1000
Recognise and use square and cube numbers and their notation
Solve problems involving combinations of operations, choosing and using calculations and methods appropriately.


Key vocabulary: groups of, lots of, times, array, altogether, multiply, count, multiplied by, repeated addition, array, column, row, commutative, sets of, equal groups, times as big as, once, twice, three times... partition, grid method, total, multiple, product, inverse, square, factor, integer, decimal, short / long multiplication, 'carry', tenths, hundredths, decimal
Key skills for multiplication at Y6:

- Recall multiplication facts for all times tables up to $12 \times 12$ (as Y4 and Y5).
- Multiply multi-digit numbers, up to 4-digit $\times 2$-digit using long multiplication.
- Perform mental calculations with mixed operations and large numbers.
- Solve multi-step problems in a range of contexts, choosing appropriate combinations of operations and methods.
- Estimate answers using round and approximation and determine levels of accuracy.
- Round any integer to a required degree of accuracy.


Key Vocabulary: share, share equally, one each, two each..., group, groups of, lots of, array
Key number skills needed for division at V 1 :

- Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations arrays with the support of the teacher
- Through grouping and sharing small quantities, pupils begin to understand, division, and finding simple fractions of objects, numbers and quantities.
- They make connections between arrays, number patterns, and counting in twos, fives and tens.


Key Vocabulary: share, share equally, one each, two each..., group, equal groups of, lots of, array, divide, divided by, divided into, division, grouping, number line, left, left over
Key number skills needed for division at Y 2 :

- Count in steps of 2,3, and 5 from 0
- Recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers.
- Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the $x, \div$ and $=$ signs.
- Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.
- Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.



Key Vocabulary: share, share equally, one each, two each..., group, equal groups of, lots of, array, divide, divided by, divided into, division, grouping, number line, left, left over, inverse,
short division, 'carry', remainder, multiple
Key number skills needed for division at Y3:

- Recall and use multiplication and division facts for the $2,3,4,5,8$ and 10 multiplication tables (through doubling, connect the 2, 4 and 8s).
- 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.
- Solve problems, in contexts, and including missing number problems, involving multiplication and division.



## Chunking Method

Real life contexts need to be used routinely to help pupils gain a full understanding, and the ability to recognise the place of division and how to apply it to problems.






## Year 4 Divide up to 3-digit numbers by a single digit

(without remainders initially)

## Continue to develop short division:

STEP 1: Pupils must be secure with the process of short division for dividing 2-digit numbers by a single digit (those that do not result in a final remainder -see steps in Y3), but must understand how to calculate remainders, using this to 'carry' remainders within the calculation process (see example).

Real life contexts need to be used routinely to help pupils gain a full understanding, and the ability to recognise the place of division and how to apply it to problems.


STEP 2: Pupils move onto dividing numbers with up to 3-digits by a single digit, however problems and calculations provided should not result in a final answer with remainder at this stage. Children who exceed this expectation may progress to Y 5 level.

When the answer for the first column is zero ( $1 \div 5$, as in example), children could initially write a zero above to acknowledge its place, and must always 'carry' the number (1) over to the next digit as a remainder.

Include money and measure contexts when confident.

Key Vocabulary: share, share equally, one each, two each..., group, equal 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

## Key number skills needed for division at Y 4 :

- Recall multiplication and division facts for all numbers up to $12 \times 12$.
- Use place value, known and derived facts to multiply and divide mentally, including: multiplying and dividing by 10 and 100 and 1.
- Pupils practise to become fluent in the formal written method of short division with exact answers when dividing by a one-digit number
- Pupils practise mental methods and extend this to three-digit numbers to derive facts, for example 200 $\times 3=600$ so $600 \div 3=200$
- Pupils solve two-step problems in contexts, choosing the appropriate operation, working with increasingly harder numbers. This should include correspondence questions such as three cakes shared equally between 10 children.


Key Vocabulary: share, share equally, one each, two each..., group, equal 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, inverse, quotient, prime number, prime factors, composite number (non-prime)
Key number skills needed for division at Y 5 :

- Recall multiplication and division facts for all numbers up to $12 \times 12$ (as in Y4).
- Multiply and divide numbers mentally, drawing upon known facts.
- Identify multiples and factors, including finding all factor pairs of a number, and common factors of two number.
- Solve problems involving multiplication and division where larger numbers are decomposed into their factors.
- Multiply and divide whole numbers and those involving decimals by 10,100 and 1000 .
- Use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.
- Work out whether a number up to 100 is prime, and recall prime numbers to 19.
- 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
- Use multiplication and division as inverses.
- Interpret non-integer answers to division by expressing results in different ways according to the context, including with remainders, as fractions, as decimals or by rounding (e.g. $98 \div 4=24 r 2=241_{2}=24.5 \approx 25$ ).
- Solve problems involving combinations of all four operations, including understanding of the equals sign, and including division for scaling by different fractions and problems involving simple rates.



## Key Vocabulary: As previously, \& common factor

## Key number skills needed for division at Y6:

- Recall and use multiplication and division facts for all numbers to $12 \times 12$ for more complex calculations
- Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context. Use short division where appropriate.
- Perform mental calculations, including with mixed operations and large numbers.
- Identify common factors, common multiples and prime numbers.
- Solve problems involving all 4 operations.
- Use estimation to check answers to calculations and determine accuracy, in the context of a problem.
- Use written division methods in cases where the answer has up to two decimal places.
- Solve problems which require answers to be rounded to specified degrees of accuracy.


Key Vocabulary: As previously, \& common factor

## Key number skills needed for division at Y6:

- Recall and use multiplication and division facts for all numbers to $12 \times 12$ for more complex calculations
- Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context. Use short division where appropriate.
- Perform mental calculations, including with mixed operations and large numbers.
- Identify common factors, common multiples and prime numbers.
- Solve problems involving all 4 operations.
- Use estimation to check answers to calculations and determine accuracy, in the context of a problem.
- Use written division methods in cases where the answer has up to two decimal places.
- Solve problems which require answers to be rounded to specified degrees of accuracy.

