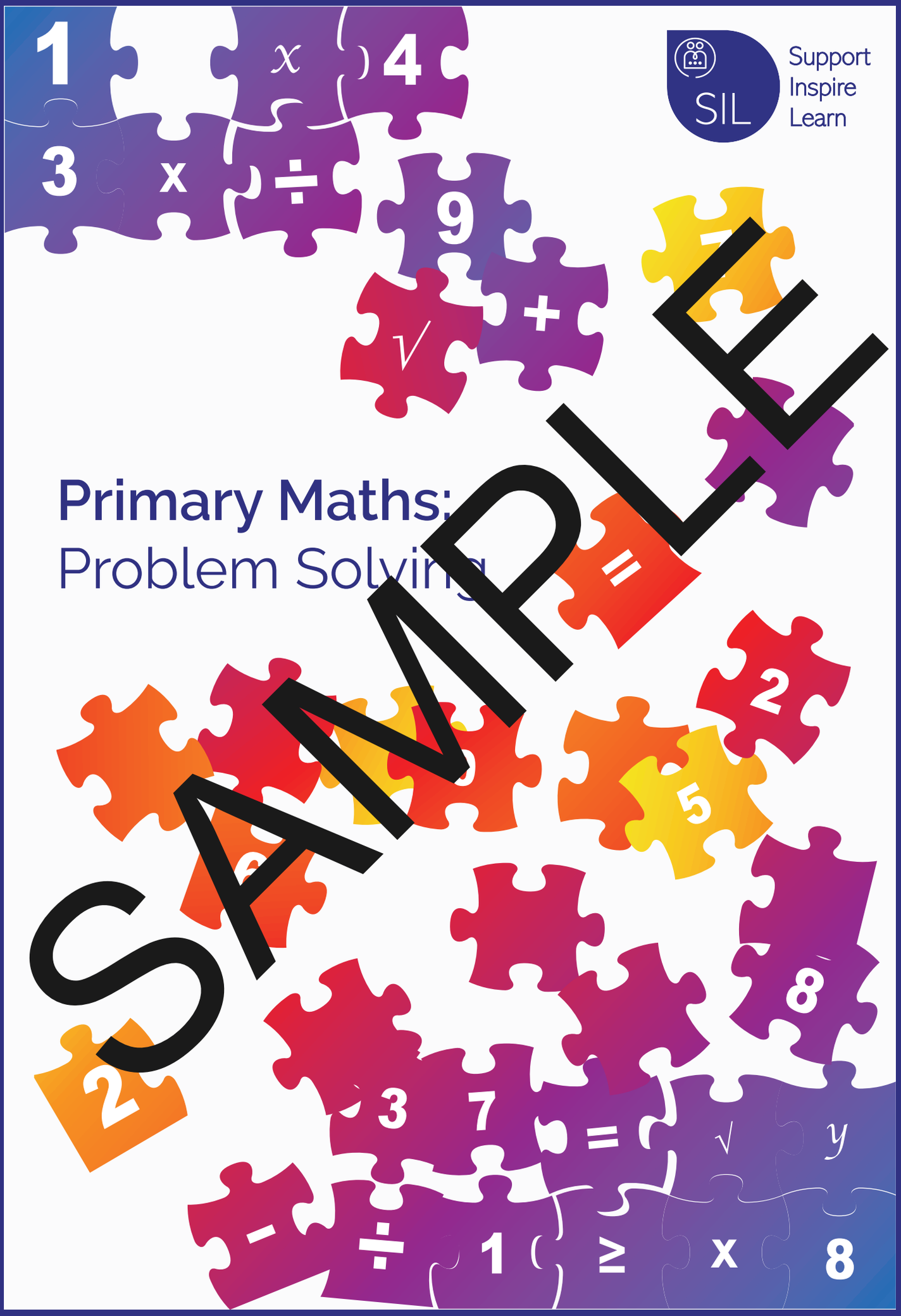

Support
Inspire
Learn
SIL
Primary Maths:
Problem Solving
SAMPLE

Contents

Introduction

The following resources have been compiled in response to the aims of the national curriculum ensuring that problem solving and reasoning is at the heart of the teaching of mathematics.

Once children have developed arithmetic fluency it is important to provide opportunities for them to deepen their knowledge, make connections and apply their skills across a range of meaningful contexts. These resources will support teachers to embrace the mastery approach which underpins the national curriculum.

Our materials are fully editable and can be personalised to meet the needs and interests of individual cohorts. Each resource begins with an information page which sets the scene and should be referred to when solving each question. They are structured in line with the Liverpool Maths Plans but can also be used as a stand-alone problem solving resource.

These questions can be used as a formative assessment tool as they may provide opportunities for children to show application of skills independently, at a distance from direct teaching. You may choose to use them during guided sessions and to encourage collaborative group work.

> "I chose one of the problems for my Maths observation and it went really well, the children loved it! So much that it and really challenging. Can't wait to try another one."
>
> – Year 1 Teacher, St Edmund's and St Thomas' Catholic Primary School.

> "A high-quality mathematics education provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics and a sense of enjoyment and curiosity about the subject."
>
> – The National Curriculum, 2013.

Year One

Autumn 1
Clas[illegible]

[illegible]tumn 2
[illegible]aths Pa[illegible]y

Spr[illegible]
Smoo[illegible]ies

S[illegible]ing 2
Sch[illegible]l Trip

[illegible]ummer 1
[illegible]aths Trial

Summer 2
Summer Fayre

Year One, Autumn 1
Class Shop

New Objectives

Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number

Counting in multiples of twos, fives and tens as appropriate

Count, read and write numbers to 100 in numerals

Read and write numbers from 1 to 20 in numerals and words

Given a number, identify one more and one less

Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to , more than, less than (fewer), most, least

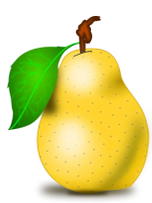
Continuous Objectives

Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number

Given a number, identify one more and one less

Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to , more than, less than (fewer), most, least

Class Shop

 12 flowers	 00 bags of sweets
 50 ncil	 99 chocolate bars
 65 apples	 32 books
 80 newspapers	 45 bags of crisps
 20 rubbers	 70 pears

Year One, Spring 1
Smoothies

New Objectives

Count in multiples of twos, fives and tens

Solve one-step problems involving multiplication and divisio[illegible] calculating the answer using concrete objects, pictorial represen[illegible] and a[illegible]s with the [illegible]pport of the teacher

Recognise, find and name a half as one o[illegible]o equal pa[illegible] of an object, shape or quantity

Recognise, find and name a quarte[illegible]e of fou[illegible]qual parts of an object, shape or quantity

Continuous Obj[illegible]tiv[illegible]

Count to and across 100, forw[illegible]s and ba[illegible]ards, beginning with 0 or 1, or from any given numb[illegible]

Given a numb[illegible] identify [illegible]ore and one less

Identify and repr[illegible]e numbers using objects and pictorial representations including [illegible]e number line, a[illegible] use the language of equal to, more than, less than (fewer), most, least

Sol[illegible]e-step [illegible]oblems that involve addition and subtraction, using concrete objects [illegible] pictorial re[illegible]esentations, and missing number problems such as 7 = □ - 9

Solve one-st[illegible] problems involving multiplication and division, by calculating the answ[illegible]g concrete objects, pictorial representations and arrays with the support of the teacher

Smoothies

Ingredients for 1 smoothie

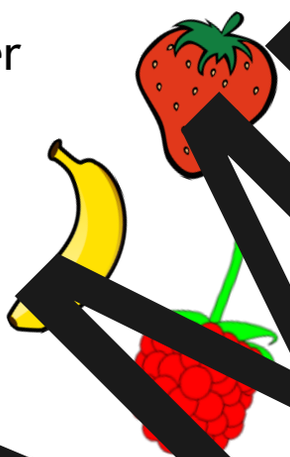
$\frac{1}{2}$ Cup of water

5 Strawberries

10 Blueberries

1 Banana

2 Ice Cube



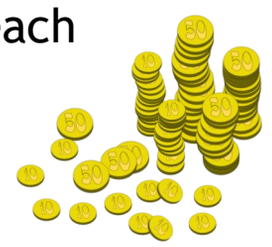
Prices

Strawberries - 5p each

Blueberries - 2p each

Banana - 10p each

Raspberries - 3p each



Time

A smoothie takes $\frac{1}{4}$ of hour to make.

How many smoothies could we make in an hour?

How much water is needed for 2 smoothies?

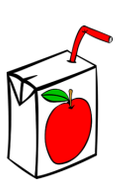
Farm Visit

Year 1 are going to the farm!
There are chickens at the farm.

There are sheep on the farm.

There is a horse and a donkey on the farm.

The children have a ham sandwich, a drink and a biscuit for lunch.



Year One, Summer 1
A New Garden

New Objectives

Recognise and name common 2-D shapes, including for example, rectangles, squares circles and triangles

Recognise and name common 3-D shapes, including for example, cuboids, cubes, pyramids and spheres

Describe position, direction and movement, including whole, half, quarter and three-quarter turns

Continuous Objectives

Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number

Recognise and know the value of different denominations of coins and notes

Given a number, identify one more and one less

Identify and represent numbers using objects and pictorial representations including the number line, and use the language of equal to, more than, less than (fewer), most, least

Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = □ - 9

Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher

Recognise, find and name a half as one of two equal parts of an object, shape or quantity

Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.

A New Garden

Using the words

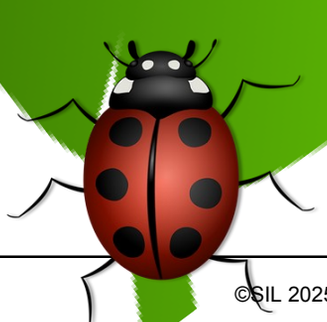
forward, left, right,

quarter turn,
three quarter turn,

describe

the path of the

Ladybird.



Year Two

Autumn 1
Clas[illegible]

[illegible]tumn 2
[illegible]ristmas [illegible]ayre

Spr[illegible]
Makin[illegible]akes

Sp[illegible]ng 2
Farm [illegible]isit

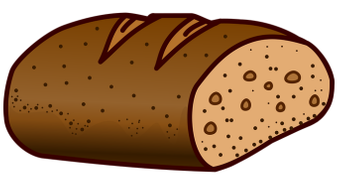
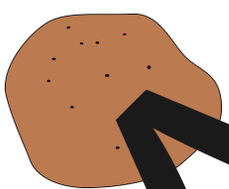
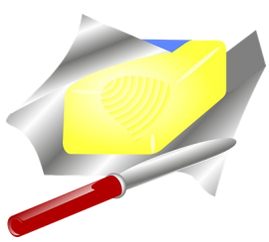
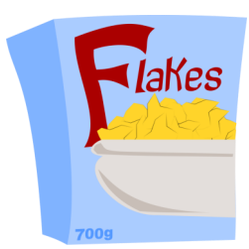
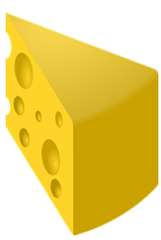
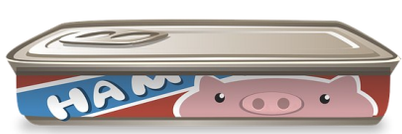
[illegible]ummer 1
[illegible]aths Trail

Summer 2
Sports Day

Year Two, Autumn 1
Class Shop

New Objectives
Count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward.
Recognise the place value of each digit in a two-digit number (tens, ones)
Read and write numbers to at least 100 in numerals and words
Compare and order numbers from 0 up to 100; use < > and = signs
Identify, represent and estimate numbers using different representations, including the number line
Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems
Add and subtract numbers mentally including; • A two-digit number and ones • A two-digit number and tens • Two two-digit numbers • Adding three one-digit numbers
Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot
Add and subtract numbers using concrete objects pictorial representations including; • A two-digit number and ones • A two-digit number and tens • Two two-digit numbers • Adding three one-digit numbers

Class Shop

Bread 35p 	Milk 30p 	Eggs 42p 
Potatoes 50p 	Carrots 2[illegible] 	Apples 32p 
[illegible]ic 85p 	Butter 40p 	Cereal 70p 
orange juice 15p 	Cheese 25p 	Ham 50p 

Year Two, Autumn 2
Christmas Fayre

New Objectives

Recall and use multiplication and division facts for 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 multiplication (x), division (÷) and equals (=) signs

Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot

Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity

Write simple fraction for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$

Continuous Objectives

Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward (solve problems involving counting)

Use place value and number facts to solve problems (place value)

Solve problems with addition and subtraction;
- Using concrete objects and pictorial representations, including those involving numbers, quantities and measures
- Applying their increasing knowledge of mental and written methods

Recognise the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems

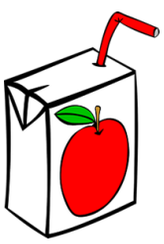
Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.

Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape set of objects or quantity

Write simple fraction for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$

Christmas Fayre

Ola has 50p. She wants to spend it on drinks for her and her friends. She is trying to work out if she has enough money. She can't decide which one is right.



10 x 6 = 60p

6 x 10 = 60p

Can you explain which is correct.

Freya wants to buy 6 candy canes and has 30p. She can't decide if she has enough as she is working it out as follows.

30p ÷ 6 = 5p

5p ÷ 6 = 30p

Which one is correct? Explain your answer.

Year Two, Spring 1
Making Cakes

New Objectives

Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit,using rulers, scales, thermometers and measuring vessels

Compare and order lengths, mass, volume/capacity and record the results using >, < and =

Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value

Find different combinations of coins that equal the same amounts of money

Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change

Compare and sequence intervals of time
Know the number of minutes in an hour and the number of hours in a day.

Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times

Continuous Objectives

Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward

Use place value and number facts to solve problems

Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.

Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.

Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape set of objects or quantity

Write simple fraction for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$

Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods.

Making Cakes




Éclairs

Ingredients:

65g Flour

50g Butter

2 Eggs

300ml Cream

Cooking time - 30 mins

Fairy Cakes

Ingredients:

275g Flour

225g Butter

225g Sugar

4 Eggs

Cooking time - 20 mins

Muffins

Ingredients:

275g Flour

100g Butter

75g Sugar

2 Eggs

Cooking time - 25 mins

Cookies

Ingredients:

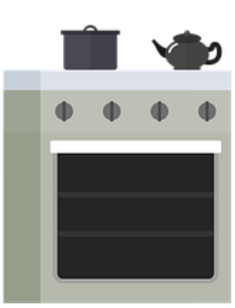
150g Flour

100g Butter

75g Sugar

1 Egg

Cooking time - 40 mins



The oven is set to 160˚C

Year Two, Spring 2
School Trip

New Objectives

Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line

Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces

Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]

Compare and sort common 2-D and 3-D shapes and everyday objects.

Order and arrange combinations of mathematical objects in patterns and sequences

Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).

Continuous Objectives

Count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward

Use place value and number facts to solve problems

Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods

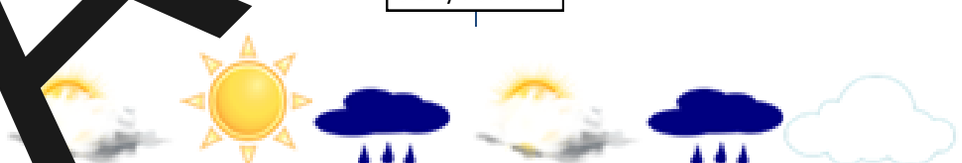
Recognise the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems, including problems in contexts.

Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts,

Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape set of objects or quantity

Write simple fraction for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$

School Trip

Travel	It takes 40 minutes to get from school to the ferry. Head on the train.	The Ferry cruise takes 50 minutes. The ferries leave every hour starting at 8am.
Cost	The Train journey costs: **50p** each way for a child and **£1 and 20p** for an adult.	The Ferry costs **£2 and 50p** for a child and **£3** for an adult.
Weather	6 Day Forecast 	
Food	The children shared family bags of crisps. 4 children shared a bag.	The cans of coke came in packs of 6. Every child had a can. They cost 20p each.

Year Two, Summer 1
Maths Trail

New Objectives

Interpret and construct simple pictograms, tally charts, block diagrams and simple tables

Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity

Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity

Continuous Objectives

Count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward

Use place value and number facts to solve problems

Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods

Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.

Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.

Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape set of objects or quantity

Write simple fraction for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$

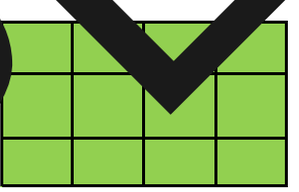
Maths Trail

Clue E

In Spring, the children plant seeds in the tubs. They grow 2cm a week. If they start to show on Monday 4th April, how tall will they be on 25th April?

Clue F

The children planted one seed in each section of the tray.



If they had 24 seeds, how many trays did they fill?

Clue G

Butterflies fly past the flowers every 20 minutes, how many fly past in 1 hour?

Clue H

25 children went on the maths trail. The teacher organised them into groups of 5, how many groups were there?

Year Two, Summer 2
Sports Day

Continuous Objectives
Use place value and number facts to solve problems
Count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward
Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape set of objects or quantity
Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods.
Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.
Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$

Sports Day

Class sizes

Class	Number of
RS	28
R	30
B	2
R	25
Y2D	25
G	30

Events

Egg and Spoon	
Sack Race	
Long Jump	
Bean Bag Throw	
Relay	

Year Three

Autumn 1
Enterprise Day

Autumn 2
Party Planning

Spring 1
Pizza Time

Spring 2
Zoo Trip

Summer 1
A New Classroom

Summer 2
Summer Fayre

Year Three, Autumn 1
Enterprise Day

New Objectives

Count in multiples of 4, 8, 50 and 100; finding 10 or 100 more or less than a given number.

Recognise the place value of each digit in a three – digit number (hundreds, tens and ones)

Compare and order numbers to 1000

Identify, represent and estimate numbers using different representations.

Read and write numbers up to 1000 in numerals and in words

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

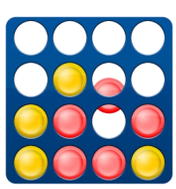
Continuous Objectives

Solve number problems and practical problems involving the ideas from number and place value

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

Enterprise Day

Entry cost: 55p 	The maximum spending money the children are allowed is £5 
Activities	
Puppet show: 75p 	**Four in a row:** 25p 
Face painting: 	**Picture frame making:** £2 and 25p 
Bean bag toss: 50p 	**Raffle tickets:** 25p each or 5 for a £1 **450**

Year Three, Autumn 2
Party Planning

New Objectives

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

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

Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and dividing one-digit numbers or quantities by 10

Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators

Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators

Recognise and show, using diagrams, equivalent fractions with small denominators

Compare and order unit fractions, and fractions with the same denominators

Continuous Objectives

Solve number problems and practical problems involving the ideas from number and place value

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

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

Party Planning

Will is having a superhero themed party. He has invited all the children from his class. 	Including Will, there are 32 children in his class. 32
One whole cake £3 	15 sausage rolls £1 and 50p 
20 sandwiches £8 	4 lollipops 50p 
Crisps 20p a bag 	1 juice box 30p 

Year Three, Spring 1
Pizza Time

New Objectives

Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)

Measure the perimeter of simple 2-D shapes

Add and subtract amounts of money to give change, using both £ and p in practical contexts

Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks

Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as am/pm, morning, afternoon, noon and midnight

Know the number of seconds in a minute and the number of days in each month, year and leap year

Compare duration of events [for example] to calculate the time taken by particular events or tasks

Continuous Objectives

Solve number problems and practical problems involving the ideas from number and place value

Estimate answers 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

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

Solve problems involving fractions

Pizza Time

Ingredients for 1 Pepperoni Pizza

355g Bread flour

$2\frac{1}{2}$ teaspoons salt

3 tablespoon oil

240ml water

7g yeast

25 slices of pepperoni

170g mozzarella cheese

250ml tomato sauce

Time

It takes 40 minutes to prepare the pizza and 15 minutes to bake it.

Prices at Pizza Palace

Margherita - £7 and 50p

Pepperoni - £8 and 50p

Vegetarian - £7 and 75p

Hawaiian - £8 and 25p

Garlic Bread - £5 and 45p

Coca cola - £1 and 60p

Milkshake - £1 and 85p

Pizza Pieces

Pizzas are cut into 6 pieces

Year Three, Spring 2
Zoo Trip

New Objectives

Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them

Recognise that angles are a property of shape or a description of a turn

Identify right angles, recognise that two right angles make a half turn, three make three quarters of a turn and four a complete turn

Identify whether angles are greater than or less than a right angle

Identify horizontal and vertical lines and pairs of perpendicular and parallel lines

Continuous Objectives

Solve number problems and practical problems involving the ideas from number and place value

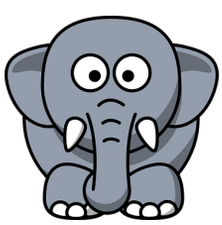
Estimate the answer to a calculation and use inverse operations to check answers

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

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

Solve problems involving fractions

Zoo Trip



An elephant's height is 6 times the length of its footprint!

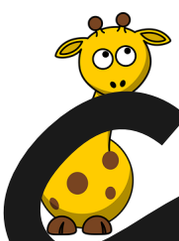
The shape of the penguin enclosure is a pentagon.

Monorail prices:

Adult: £1

Child : £1 and 50p

Polly the Python is 4m long and weighs 12 kg.



A baby giraffe is 2m tall when she is born.

She weighs 70 kg.

There are 4 types of monkeys in the Zoo.

An adult fruit bat has a wingspan of 75cm.

There are over 300 bats at the zoo.

They like to eat apples, Bananas, oranges and pears.

Gift Shop Prices

Lion: £3 and 25p

Snake: £1 and 75p

Cup : £2

Pencil: 50p

Pen: £1

Year Three, Summer 1
A New Classroom

New Objectives

Interpret and present data using bar charts, pictograms and tables

Solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts, pictograms and tables.

Continuous Objectives

Solve number problems and practical problems involving the ideas from number and place value

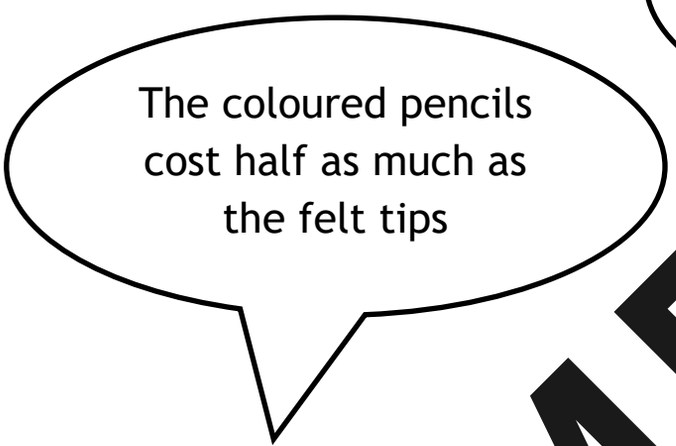
Estimate the answer to a calculation and use inverse operations to check answers

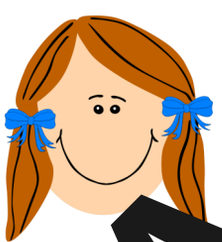
Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction

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

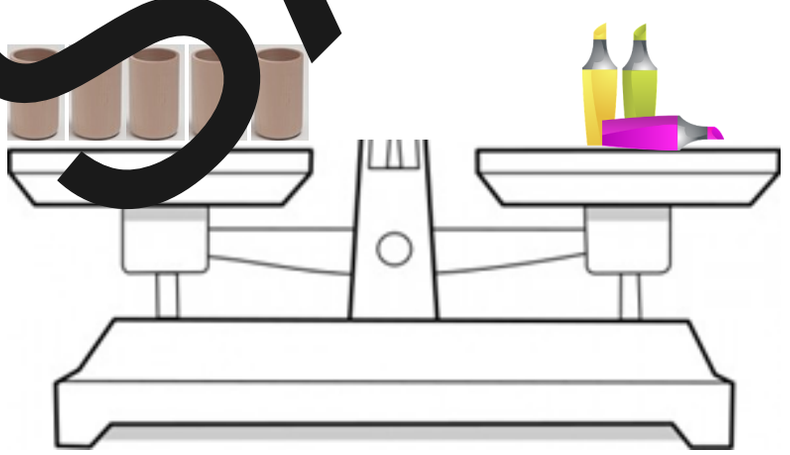
Solve problems involving fractions

A New Classroom





is right? Explain your answer



If 5 pencil pots cost the same as a pack of felt tips, how much does 1 pencil pot cost?

Year Three, Summer 2
Summer Fayre

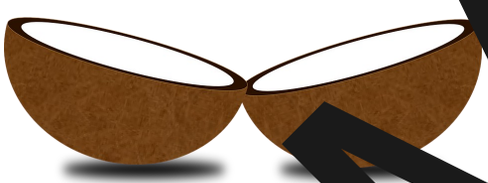
Continuous Objectives
Solve number problems and practical problems involving the ideas from number and place value
Estimate the answer to a calculation and use inverse operations to check answers
Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction
Solve problems including missing number problems, involving multiplication and division, including scaling problems and correspondence problems in which n objects are connected to m objects
Solve problems involving fractions

Summer Fayre

It will cost 45p to get into the fayre

Activities

Coconut Shy 50p



Soak the Teacher £1

Ball in a Bucket 60p for three throws or a go

Coloured Hairspray £1 and 50p

Guess how many sweets in the jar 40p

Bouncy Castle 80p per session

Balloon Pop 50p for three darts
75p for six darts

Tin Can Alley 10p a throw

Year Four

Autumn 1
Cin[illegible]ip

[illegible]utumn
Christm[illegible] Fayre

Sp[illegible]g 1
Mak[illegible] Scones

[illegible]ring 2
Sc[illegible]ce Museum

Summer 1
[illegible] New Bedroom

Summer 2
Sports Day

Year 4, Autumn 1
Cinema Trip

New Objectives

Count in multiples of 6, 7, 9, 25 and 1000
Find 1000 more or less than a given number

Count backwards through zero to include negati[illegible]ers
Order and compare numbers beyond 1000

Recognise the place value of each digit in [illegible]ur –digit n[illegible]ber (thousands, hundreds, tens and ones)

Identify, represent and estimate nu[illegible] using d[illegible]ent representations

Round any number to the nearest 10, [illegible]0 or [illegible]00

Read Roman numerals [illegible] C)and [illegible]ow tha[illegible]ver time, the numeral system changed to include the co[illegible]t ze[illegible]d p[illegible]ce value

Add and subtract numbers wit[illegible] to four digits using formal written methods of columnar ad[illegible] subtractio[illegible]here appropriate

C[illegible]tinuous [illegible]ectives

Solve number and p[illegible]ctical problems that involve all of the above with increasingly large n[illegible]umbe[illegible] number and place value

[illegible]stimate and u[illegible] inverse operations to check answers to a calculation

Solv[illegible]addi[illegible] and subtraction two – step problems in contexts, deciding which operations and methods to use and why

Cinema Trip

Information

Costs and Show Times

Ice Age

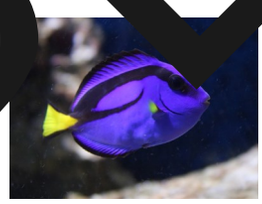
2:30pm, 5:00pm, 7:15pm

Duration of film - 90mins

Finding Dory

1:20p 3:45pm, 6:30p

ion film - 0mins



X-Men

12:45pm, 3:10pm 0pm

Duration of film - 14 ins

Tickets

Adult - £8.50

Child - £6.25

Offer - 2 for 1 on Tuesdays

Groups bookings of 30 or more:

Child – £5.

Refreshments

Coke - 85

Haribos - £0.85

Hot Dogs - £3.25

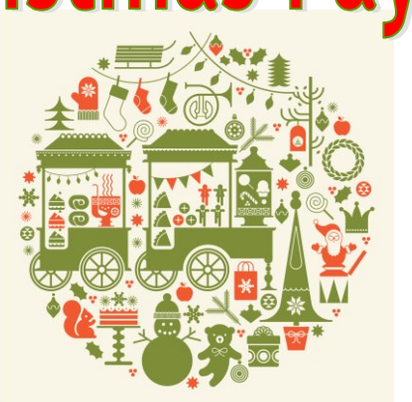
Tango - £1.60

Popcorn - £3.50

Year 4, Autumn 2
Christmas Fayre

New Objectives
Recall multiplication and division facts of multiplication tables up to 12 x 12
Use place value, known derived facts to multiply and divide mentally, including; multiplying by – and 1; dividing by 10, multiplying together three numbers
Recognise and use factor pairs and commutativity in mental calculations.
Multiply two-digit and three-digit by a one-digit number using formal written layout
Recognise and show, using diagrams, families of common equivalent fractions
Count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten
Add and subtract fractions with the same denominator
Recognise and write decimal equivalents of any number of tenths or hundredths
Recognise and write decimal equivalents to 1/2, 1/4 and 3/4.
Find the effect of dividing a one or two digit number by 10 and 100, identifying the value of the digits in the answer as units, tenths and hundredths.
Round decimals with one decimal place to the nearest whole number
Compare numbers with the same number of decimal places up to two decimal places

Christmas Fayre



Santa's grotto £1.00 	Reindeer food 2[illegible] 
Personalise a bauble Plain 2[illegible] 30p with gl[illegible]er 	Lucky dip 45p 
To[illegible]bo[illegible] 25p 	Make a stocking 80p 
Pin the scarf on the snowman 20p 	Decorate a biscuit 65p 

Year 4, Spring 1
Making Scones

New Objectives

Convert between different units of measure

Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.

Find the area of rectilinear shapes by counting squares.

Estimate, compare and calculate different measures, including money in pounds and pence.

Read, write and convert time between analogue and digital, 12 and 24- hour clocks

Continuous Objectives

Solve number and practical problems that involve all of the above and with increasingly large positive numbers including place value

Estimate and use inverse operations to check answers to a calculation

Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects

Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number

Solve simple measure and money problems involving fractions and decimal problems to two decimal places.

Solve problems, involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

Making Scones

The scones went in the oven at 6:00pm. What time did they come out? Can you write this

using 24hr clock?

Grandma started making scones at 1.25pm, what time were they ready to go into the oven? Can you write the time they were ready to eat using 24 hour clock?

Sue took her Mum for afternoon tea. They both had lunch, a drink and a cake. What is the least Sue could have spent?

What is the most?

Ethan took his friend to the coffee shop. They chose the same lunch, drink and cake and spent

£11.50 altogether, what did they choose?

Year 4, Spring 2
Science Museum

New Objectives

Compare and classify geometric shapes, including quadrilaterals and tr[illegible]gles, base[illegible]n their properties and sizes

Identify acute and obtuse angles and compare and order angles up to two[illegible] angles

Identify lines of symmetry in 2-D shapes presented in different orientations

Complete a simple symmetric figure with respect to a specif[illegible]e of symmetry

Describe positions on a 2-D grid as coordinate[illegible] the fi[illegible] quadra[illegible]

Describe movement between positions as [illegible]nslations [illegible] given unit t[illegible] the left/right and up/down

Plot specified points and draw sides [illegible]mplete [illegible]ven polygon

Continuous Obje[illegible]

Solve number and practical p[illegible]blems [illegible]olve all of the above and with increasingly large positive numbers numbe[illegible]d place v[illegible]de

Estimate and [illegible]e inv[illegible]operations [illegible]check answers to a calculation

Solve addition a[illegible] sub[illegible]action t[illegible]-step problems in contexts, deciding which o[illegible]tions and m[illegible]ds to use and why

Solve problems inv[illegible]ing multiplying and adding, including using the distributive law to multi[illegible]digit [illegible]mbers by one digit, integer scaling problems and harder co[illegible]pondenc[illegible]roblems such as n

Solve problem[illegible]nvolving increasingly harder fractions to calculate quantities, and fract[illegible]ns to[illegible]ide quantities, including non-unit fractions where the answer is a whole numb[illegible]

Solve simple measure and money problems involving fractions and decimal problems to two decimal places.

Solve problems, involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

Science Museum

Year 4 are going on a school trip to the Science Museum.
There are 54 children and 7 adults.

Opening Times

Weekdays (Tuesday-Friday)
10.00am to 4.00pm.

Location

The Museum is e[illegible] kilometres from school and takes ap[illegible]roximately 35 mi[illegible] to get there.

Entrance Fees

£6 per adult

£4 per child

For every 25 children,
1 child goes free

Coach Costs

65 seats: £320

January-March:
Winter discount of £25

Lunch Arrangements

Children are asked to bring a packed lunch.

The school will pay £145 towards the total cost of the trip.

Every child may bring £5 to spend in the gift shop.

Year 4, Summer 1
A New Bedroom

New Objectives

Interpret data using appropriate graphical methods, including bar charts and or graphs

Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs

Continuous Objectives

Solve number and practical problems that involve all of the above and with increasingly large positive numbers number and place value

Estimate and use inverse operations to check answers to a calculation

Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

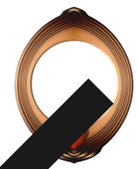
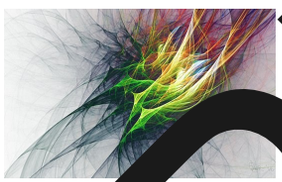
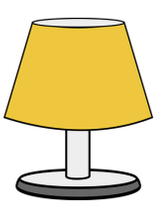
Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects

Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number

Solve simple measure and money problems involving fractions and decimal problems to two decimal places.

Solve problems, involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

A New Bedroom

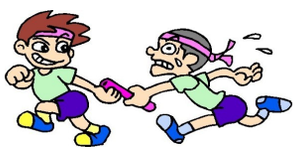
Mirror A  £15	Mirror B  £27.90	Mirror C  £48.50
Wall Art A  £75	Wall Art B  £4.99	Wall Art C  £2.50
Chair A  £52.50	Chair  £20	Chair C  £29.99
Lamp A  £26.9	Lamp B  £14	Lamp C  £38.50
Storage A  £5	Storage B  £149.99	Storage C  £68.00

Year 4, Summer 2
Sports Day

Continuous Objectives
Solve number and practical problems with increasingly large positive numbers number and place value
Estimate and use inverse operations to check answers to a calculation
Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects
Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number
Solve simple measure and money problems involving fractions and decimal problems to two decimal places
Solve problems, involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

Sports Day

Relay



400m in total

4 children per team

Sprint

100 m

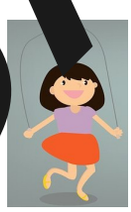
High Jump

Only Years 5 and 6

Long jump

All children take part

Skipping



Each child skips for as long as they can

Class Size

Year 3	28
Year 4	32
Year 5	30
Year 6	27

Tuck shop

15p

28p

10p

Year Five

Autumn 1
Sale[illegible]

[illegible]tumn 2
[illegible]rty Pla[illegible]ng

Sp[illegible]
The S[illegible]ke Place

S[illegible]ing 2
Wo[illegible] Museum

[illegible]ummer 1
[illegible]hool Residential

Summer 2
Summer Fayre

Year Five, Autumn 1
Sales and Discounts

New Objectives

Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit

Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000

Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero

Round any number up to 1, 000, 000 to the nearest 10, 100, 1000, 10,000, 100, 000

Read Roman numerals to 100 (M) and recognise years written in Roman numerals

Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)

Add and subtract numbers mentally with increasingly large numbers

Continuous Objectives

Solve number problems and practical problems that relate to number above (and place value)

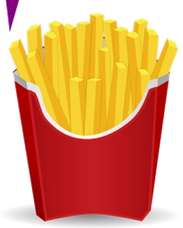
Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

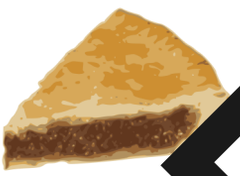
Solve addition and subtraction multi – step problems in contexts, deciding which operations and methods to use and why

Seaside Sales

Sales and Discounts

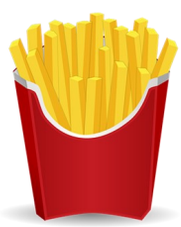
Charlie's Cheap as Chips

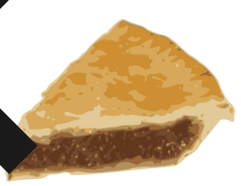
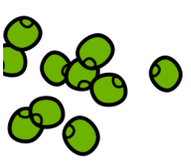



Chips £1.20 now 50% discount	Chicken pieces £1.60 now 25% discount	Fish £2.25 now 35% discount	Pie £1.10 now [illegible] discount	[illegible]ushy pea[illegible] 85p [illegible] 40% discount

Sandy Shaw's Snack Bar



Chips £1.50 buy one portio[illegible] get one half price	Chicken[illegible]eces £2.40 buy one get [illegible]ree	[illegible]Fish [illegible]3.75 three for the price of two	Pie £1.50 1/3 off	Mushy peas £1.10 30% off when you buy two or more portions

[illegible]g an[illegible]loe are arguing. Meg's favourite chip shop is [illegible]'s Ch[illegible]p as Chips so she asked mum if they could buy lunch from there, but J[illegible] prefers Sandy Shaw's. Mum gave them the order and said [illegible]ld go to the cheapest. Work out where they go for lunch.

Year Five, Autumn 2
Party Planning

New Objectives

Identify multiples and factors, including finding all factor pairs of a number, and a common factor of two numbers

Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers

Establish whether a number up to 100 is a prime and recall prime numbers up to 19

Multiply numbers up to 4 digits by a one- or two- digit number using a formal written method, including long multiplication for two-digit numbers

Multiply and divide numbers mentally drawing upon known facts

Divide numbers up to a 4 digits by a one-digit number using formal written method of short division and interpret remainders appropriately for the context

Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000

Recognise and use square numbers and cube numbers, and the notation for squared (^{2}) and cubed (^{3})

Compare and order fractions whose denominators are all multiples of the same number

Add and subtract fractions with the same denominator and denominators that are multiples of the same number

Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths

Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{5}{5} + \frac{4}{5} = \frac{9}{5} = 1\frac{1}{5}$]

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

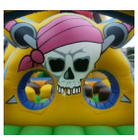
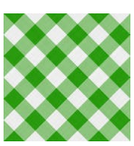
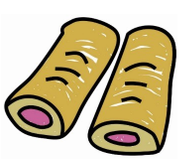
Read and write decimal numbers as fractions [for example, 0.71 = $\frac{71}{100}$]

Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

Round decimals with two decimal places to the nearest whole number and to one decimal place

Party Planning

What is needed...

Bouncy castle hire £30 an hour 	Prizes for pass the parcel £3.50 each 	Hire of t[illegible] hall [illegible]0 an hou 
3 cupcakes 60p 	Can of po[illegible]0p e[illegible]h 	50 paper plates £1 
10 party bags £1 	[illegible] for 30 	Crisps 25 bags for £2 
Medals £1 for [illegible] 	Tablecloths 75p each 	Birthday cake £4.99 
£25 an hour 	50p for four sausage rolls 	Sandwiches 75p each 

Year Five, Spring 1
The Shake Place

New Objectives

Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)

Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.

Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.

Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes.

Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]

Continuous Objectives

Solve number problems and practical problems that relate to all of the above (number and place value)

Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

Solve addition and subtraction multi-step problems in contexts deciding which operations and methods to use and why

Solve problems involving numbers up to three decimal places

Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes

Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign

Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates

Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{2}{5}$ $\frac{4}{5}$ and those fractions with a denominator or a multiple of 10 or 25

Solve problems involving converting between units of time.

Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.

The Shake Place

The Basic Shake Recipe:

1 pint of Ice Cream

1 teaspoon of vanilla flavouring

$\frac{3}{4}$ pint of milk

Basic Shake

£2.85

Oreo Shake

£3.10

Raspberry Blast

£2.95

Lemon Lush

£3.05

Waffles

£4.75

Crepes

£4.95

Each shake is made up using the basic recipe.

The Shake Place is open 7 days a week.

Year Five, Spring 2
World Museum

New Objectives

Identify 3-D shapes, including cubes and other cuboids, from 2-D representations
Know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles
Draw given angles, and measure them in degrees (°) Identify:-angles at a point on one whole turn (total 360°) angles at a point on a straight line and a $\frac{1}{2}$ turn (total 180°) other multiples of 90°
Use the properties of rectangles to deduce related facts and find missing lengths and angles
Distinguish between regular and irregular polygons based on reasoning about equal sides and angles
describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed

World Museum

The World Museum in Liverpool has 330,831 visitors per year 	The exhibits are currently housed in glass cubes or cuboids. 
The Show at the Planetarium lasts for 10 minutes. 	There are approximately 80,000 objects from across the ancient world in the collection. 
Scientists believe that an average T Rex is 12 m long and 5 m tall. 	The Planetarium Show costs: £2.50 for an adult £1.50 for a child (age 5—13) £7.00 for a family. Members are half price.

Year Five, Summer 1
School Residential

New Objectives

Solve comparison, sum and difference problems using information presented in a line graph

Complete, read and interpret information in tables, including timetables.

Continuous Objectives

Solve number problems and practical problems that relate to all of the above (number and place value)

Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

Solve addition and subtraction multi-step problems in contexts deciding which operations and methods to use and why

Solve problems involving numbers up to three decimal places

Solve problems involving multiplication and division including using their knowledge of factors, multiples, squares and cubes

Solve problems involving addition, subtraction, multiplication and a combination of these, including understanding the meaning of the equals sign

Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates

Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{2}{5}$ $\frac{4}{5}$ and those fractions with a denominator or a multiple of 10 or 25

Solve problems involving converting between units of time.

Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.

School Residential

The Holiday Centre

35 pupils and 4 staff will be going on the residential

The Centre charges:
£225 per child for 3 nights
£280 per child for 4 nights
£345 per child for 5 nights
£100 per adult per night
For every 10 children an adult goes free
There is a 10% discount during the winter

A 40-seater coach hire costs £365

The return train journey costs:
£23 per adult £12 per child

	Activities				Night Activities	
Activity	Abseiling	Kayaking	Adventure Course	Raft Building	Night Walk	Bingo
Duration (mins)	45	70	65	90	90	45

Minimum height on the Adventure Course is 1.05m

The maximum weight on the Adventure Course is 120kg

Year Five, Summer 2
Summer Fayre

Continuous Objectives

Solve number problems and practical problems that relate to all of the above (number and place value)

Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

Solve addition and subtraction multi-step problems in contexts deciding which operations and methods to use and

Solve problems involving numbers up to three decimal places

Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes

Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign

Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates

Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{2}{5}$ $\frac{4}{5}$ and those fractions with a denominator or a multiple of 10 or 25

Solve problems involving converting between units of time.

Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.

Summer Fayre

There are 130 children in the school. 	The Fayre begins at 11am and ends at 4pm. 
Entry Price. £1.[illegible] a child. £1.50 [illegible] Under [illegible] free. 	Popcorn cost 55p per box 

Year Six

Autumn 1
Price Co[illegible]ons

Aut[illegible]n 2
Chr[illegible]mas Fav[illegible]

[illegible]pring
A[illegible]rnoon [illegible]a

S[illegible]rin[illegible]2
Th[illegible] Bea[illegible]s

Su[illegible]mer 1
Sc[illegible] Production

Summer 2
Booking A Holiday

Year Six, Autumn 1
Price Comparisons

New Objectives

Read, write, order and compare numbers up to 10 000 000 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

Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication
Use their knowledge of the order of operations to carry out calculations involving the four operations

Divide number 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

Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate interpreting remainders according to the context

Perform mental calculations, including with mixed operations and large numbers
Use their knowledge of the order of operations to carry out calculations involving the four operations

Identify common factors, common multiples and prime numbers

Continuous Objectives

Solve number and practical problems that involve all of the above (number and place value)

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Solve problems involving addition, subtraction, multiplication and division

Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

Price Comparisons

Transfer Fees

Player	Transfer fee
Gareth Bale	£85.3m
Edinson Cavani	£83.[illegible]m
Kevin De Bruyne	£69.7m
Angel Di Maria	£59.7m
Zlatan Ibrahimovic	£60m
Gonzalo Higuain	[illegible]5.3m
Neymar	£7[illegible]
Paul Pogba	£89.3m
Christiano Ronaldo	£83.7m
James Rodriguez	£63m
Luis Su[illegible]	£75m

Agents charge [illegible] co[illegible]mission.

Can you write these transfer fees in figures?

The BBC repo[illegible]ed that Suarez' agent e[illegible]ed £[illegible]000,000 from hi[illegible]ransfe[illegible]rom Liverpool to Barcelo[illegible], is this correct?

Jorge Mendes is the agent of Ronaldo, Rodriguez and Di Maria, how much commission did he earn through their transfers?

What is the difference in fees for Higuain and Neymar?

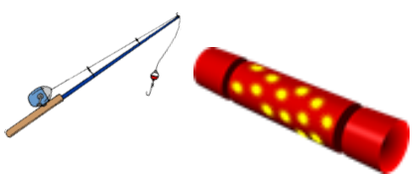
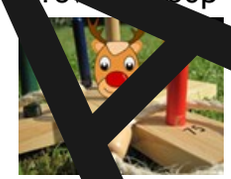
Pogba was a record transfer for Manchester United in 2016. Their previous record fee was for Di Maria in 2014, how much

Year Six, Autumn 2
Christmas Fayre

New Objectives
Use common factors to simplify fractions; use common multiples to express fractions in the same denomination
Compare and order fractions, including fractions > 1
Add and subtract fractions with a different denominators and mixed numbers, using the concept of equivalent fractions
Multiply simple pairs of proper fractions, writing the answer in its simplest form for example $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$
Divide proper fractions by whole numbers for example $\frac{1}{3} \div 2 = \frac{1}{6}$
Associate a fraction with division and calculate decimal fraction equivalents for example, 0.375 for a simple fraction, for example $\frac{3}{8}$
Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places
Multiply one- digit numbers with up to two decimal places by whole numbers
Use written division methods in cases where the answer has up to two decimal places
Recall and use equivalence between simple fraction, decimals and percentages, including in different contexts
Solve problems involving the calculation of percentages (for example, of measures and such as 15% of £360) and the use of percentages for comparison
Solve problems involving the relative sizes of two quantities where missing values can be found using integer multiplication and division facts
Solve problems involving the calculation involving similar shapes where the scale factor is known or can be found
Use simple formulae
Generate and describe linear number sequences
Express missing number problems algebraically
Find pairs of numbers that satisfy an equation with two unknowns
Enumerate possibilities of combinations of two variables

Christmas Fayre

Games and activities

Hook a Christmas cracker 30p 	**Pin th nose on Rudolph** 25 
Knock Santa down the chimne 	**Santa's grotto** £1.50 
Rudolph hoopla 20p a thr or 3 	**Decorate a plate competition** £1 entry 
ng £1.25 	**Keyring** £2.50 
Decorate a gingerbread Christmas tree 50p 	**Lucky dip** 30p a dip or two dips 55p 

Year Six, Spring 1
Afternoon Tea

New Objectives

Use, read, write and convert between standard units, Converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places

Convert between miles and kilometres

Recognise that shapes with the same areas can have different perimeters and vice versa

Recognise when it is possible to use formulae for area and volume of shapes

Calculate the area of parallelograms and triangles

Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3].

Continuous Objectives

Solve number and practical problems that involve all of the above (number and place value)

Solve addition and subtraction multi-step problems in contexts deciding which operations and methods to use and why

Solve problems involving addition, subtraction, multiplication and division

Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

Solve problems which require answers to be rounded to specified degrees of accuracy

Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts

Solve problems involving the calculation of percentages (for example, of measures and such as 15% of 360) and the use of percentages for comparison

Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples

Afternoon Tea

If they raised £1000 by selling afternoon tea platters,

how many of each could they have sold?

Is there more than 1 answer?

If a number of each platter was bought, what combinations could there be?

How many of each platter were sold?

For each combination, find out how many people who bought would attend the Afternoon Tea

E.g. If 100 platters for 3 were sold; 300 people would attend.

The school sold the following platters:

Type of platter	Number sold
Platters for 2	29
Platters for 3	14
Platters for 4	15
Platters for 5	16

How many people attended altogether?

Year Six, Spring 2
The Beatles

New Objectives

Draw 2- D shapes using given dimensions and angles

Recognise, describe and build simple 3-D shapes, including making ne

Compare and classify geometric shapes based on their properties and si a find unknown angles in any triangles, quadrilaterals, and regular polygons

Illustrate and name parts of circles, including radius, dia ter and circumferen know that the diameter is twice the radius

Recognise angles where they meet at a point, ar raight or are ve ally opposite, and find missing angles.

Describe positions on the full coordinate g (all four q rants)

Draw and translate simple shapes e coord plane, and reflect them in the axes.

Continuous Objectives

Solve number and prac roblems th involv ll of the above (number & place value)

Solve addition and subtractio ulti–ste blems in contexts deciding which operations a ethods to use why

Solve problem nvolvi ition, su traction, multiplication and division

Use estimation t h answers to calculations and determine, in the context of a , an appr ate degree of accuracy

Solve pro s whi equire answers to be rounded to specified degrees of accuracy

problems volving the relative sizes of two quantities where missing values can be found by u g integer multiplication and division facts

Sol ms involving the calculation of percentages (for example, of measures and such as 15% of 360) and the use of percentages for comparison

Solve problems involving similar shapes where the scale factor is known or can be found

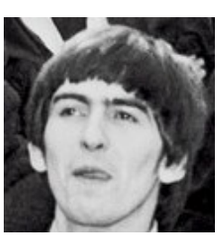
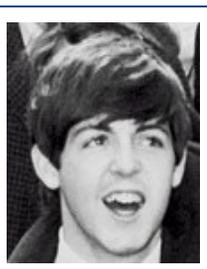
Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples

Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate

The Beatles

MONEY MONEY MONEY!

Use the clues below to work out how much money each Beatle has in the bank! The numbers are millions.

 John	 John	 Paul	
 Ringo	 Ringo	 Ringo	21
 Paul	 George	 Paul	22
20		23	

Year Six, Summer 1
School Production

New Objectives

Interpret and construct pie charts and line graphs and use these to solve problems

Calculate and interpret the mean as an average

Continuous Objectives

Solve number and practical problems that involve all of the above (number and place value)

Solve addition and subtraction multi-step problems in contexts deciding which operations and methods to use and why

Solve problems involving addition, subtraction, multiplication and division

Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

Solve problems which require answers to be rounded to specified degrees of accuracy

Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts

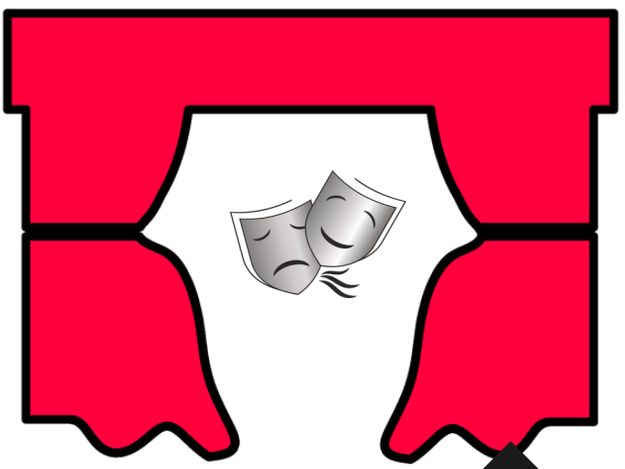
Solve problems involving the calculation of percentages (for example, of measures and such as 15% of 360) and the use of percentages for comparison (for example, of measures and such as 15% of 360) and the use of percentages for comparison

Solve problems involving similar shapes where the scale factor is known or can be found

Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples

Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate

School Production



Entrance Fee Adult: £3 Child: £1.50 	Ra[illegible] tick[illegible] A[illegible]rip for £1 or 25p each 
Size of the ha[illegible] 	Pre order a DVD £5 

Refreshments

Tea

50p

Coffee

50p

Slice of cake

75p

Juice

30p

Crisps

25p

Year Six, Summer 2
Booking a Holiday

Continuous Objectives
Solve number and practical problems that involve all of the above (number and place value)
Solve addition and subtraction multi –step problems in contexts deciding which operations and methods to use and why
Solve problems involving addition, subtraction, multiplication and division
Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
Solve problems which require answers to be rounded to specified degrees of accuracy
Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts
Solve problems involving the calculation of percentages (for example, of measures and such as 15% of 360) and the use of percentages for comparison
Solve problems involving similar shapes where the scale factor is known or can be found
Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate

Booking a Holiday

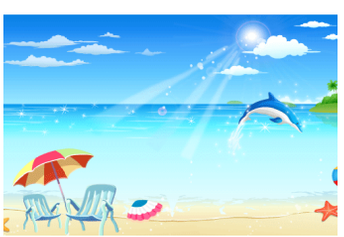
The family want to book their annual holiday but can't decide whether to relax in the sunshine or to go skiing. They love winter and summer holidays, so we need you to help them find the cheapest option.

Here is some information to consider when choosing the perfect holiday.

If they choose a ski holiday, they will need a ski pass for each member of the family

There are 2 adults and 3 children in the family, the children are aged 15, 8 and 1.

If they choose a summer holiday, they want to go on at least 2 excursions on their summer holiday



The family have a budget of **£4000** to book a holiday and need to book:

- accommodation for 14 nights
- return flights

Support
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Toxteth Annexe, Aigburth Road
Liverpool, L17 7BN
Phone: **0151 233 3901**
Email: **sil@si.liverpool.gov.uk**
Web: **www.ednet.co**