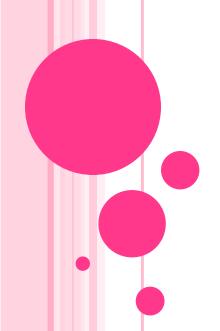
Maths in KS1



Problem Solving

5 things before the lights go out:

- o 100 square
- Washing line
- Memory tray
- Clock
- Counting stick

Number and Place Value

- count to and across 100, forwards and backwards, beginning with any given number
- o count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens
- o 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
- read and write numbers from 1 to 20 in numerals and words.

Number and Place Value

- o count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward
- recognise the place value of any digit in a 2-digit number (tens, ones)
- o identify, represent and estimate numbers using different representations, including the number line
- compare and order numbers from 0 to 100; use the <, >
 and = signs
- read and write numbers to at least 100 in numerals and words use place value and number facts to solve problems

Addition and Subtraction

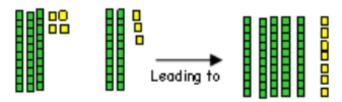
- read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs
- represent and use number bonds and related subtraction facts within 20 http://www.topmarks.co.uk/maths-games/hit-the-button
- add and subtract one-digit and two-digit numbers to 20, including zero
- o solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = -9.

Addition and Subtraction

- 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
- add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two-two-digit numbers and adding three one-digit numbers

Strategies

Addition



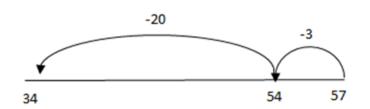
$$34 + 23 = 57$$



Subtraction



$$57 - 23 = 34$$



Addition and Subtraction

- recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 http://www.topmarks.co.uk/maths-games/hit-the-button
- show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot
- recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.

Multiplication and Division

In Yr1 children will learn to:

• 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.

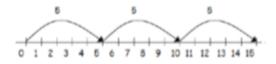
- recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
- calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs
- show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
- solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.

Strategies

Multiplication

Repeated addition

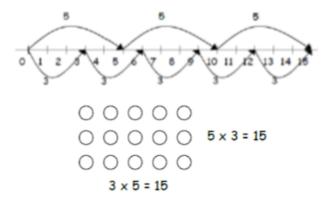
3 times 5 is 5 + 5 + 5 = 15 or 5 lots of 3 or 5×3 Children learn that repeated addition can be shown on a number line or a bead string.





Commutativity

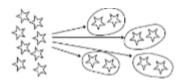
Children learn that 3×5 has the same total as 5×3 . This can also be shown on the number line or as an array.



Division

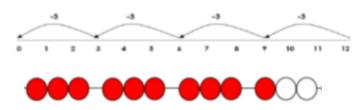
Sharing equally

8 sweets get shared between 4 people. How many sweets do they each get?

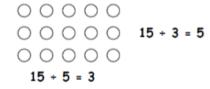


Repeated subtraction using a bead string or number line

$$12 \div 3 = 4$$



Array





Websites

http://www.topmarks.co.uk/maths-games/5-7-years/place-value-odd-and-even

Place value and odd and even games

http://www.topmarks.co.uk/maths-games/5-7years/ordering

Ordering numbers

http://www.topmarks.co.uk/maths-games/5-7-years/addition-and-subtraction

Addition and subtraction games

http://www.topmarks.co.uk/maths-games/5-7years/multiplication-and-division

Multiplication and division games

Websites

http://www.ictgames.com/addition.htm

Addition games with year group and objective shown

http://www.ictgames.com/subtraction.htm

Subtraction games with year group and objective shown

http://www.bbc.co.uk/bitesize/ks1/maths/

Maths games for KS1

http://resources.woodlands-junior.kent.sch.uk/maths/

Maths games for all ages