Useful websites

www.purplemash.co.uk

www.educationcity.co.uk

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

www.ictgames.com

www.topmarks.co.uk/mathsgame

www.mathschamps.co.uk

www.nrich.org.uk

www.oxfordowl.co.uk – free e-books

http://www.iseemaths.com/celebrating-maths-project/

Padnell Infant School

Whole School Visual

Calculation Policy

Parent Workshop

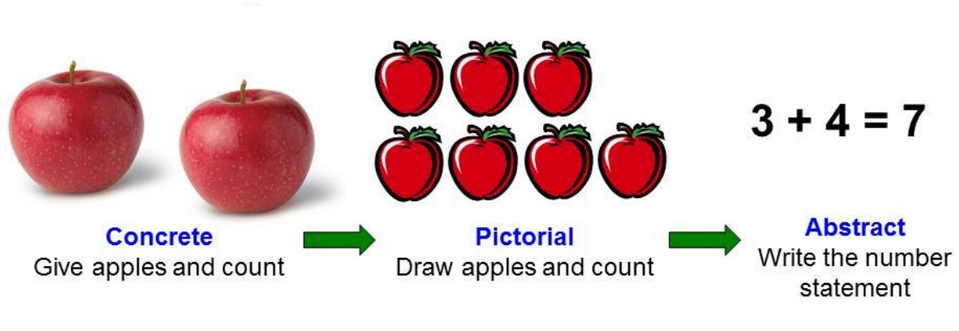
September 2017

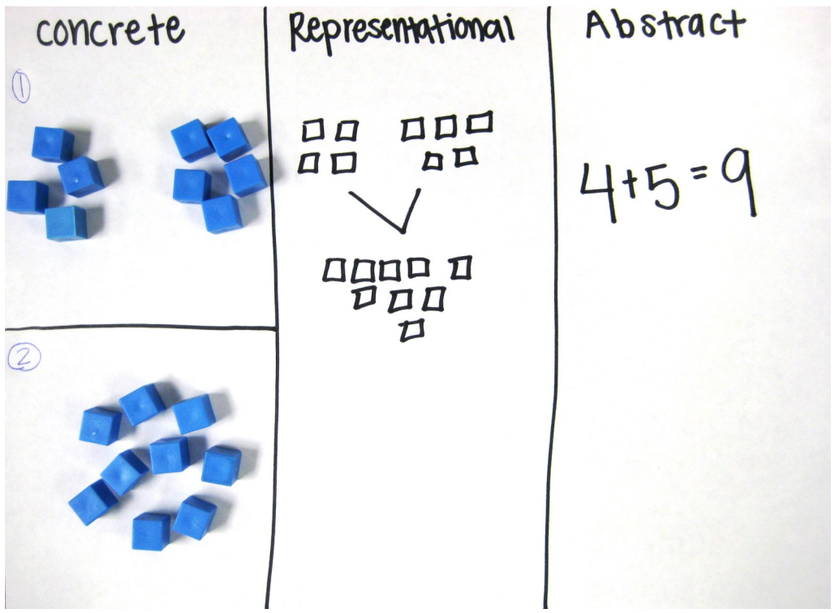
Mighty oaks from tiny acorns grow

Padnell Infant School

Concrete– Pictorial– Abstract

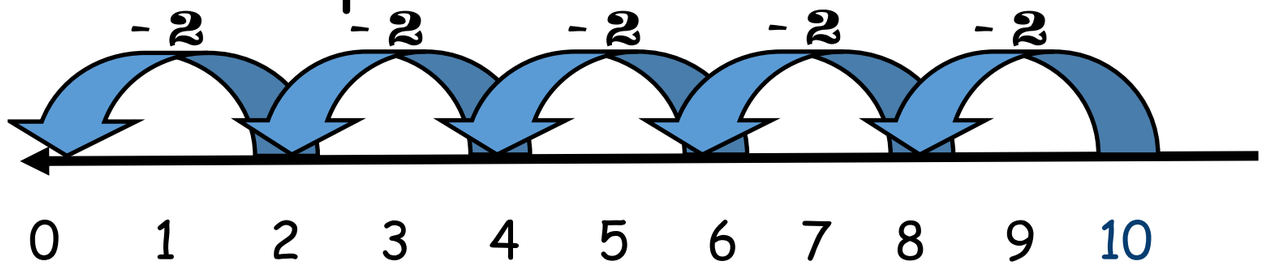
What does it mean?





Division

3. Repeated subtraction



10 ÷ 2 = 5

10 divided by 2 equals 5 jumps.

Key Vocabulary:

Addition

add, more, plus, and, make, altogether, total, equal to, equals, double, most, count on, number line, sum, tens, ones/units, partition, addition, column, greater than, less than

Subtraction

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_?

Multiplication

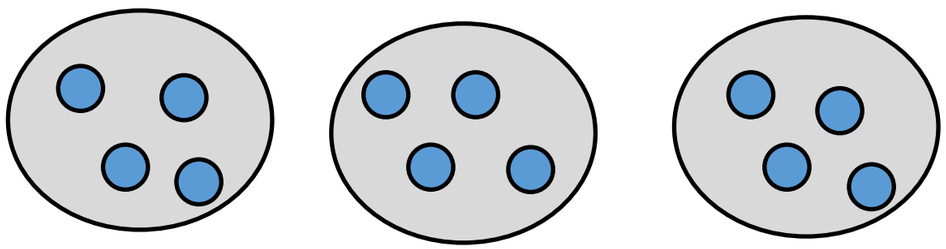
Groups of, lots of, times, multiply, altogether, count, multiplied by, repeated addition, column, row, commutative, sets of, equal groups, partition, multiple, product, tens, ones/units, value, total, inverse

Division

Divide, share, share equally, group, equal groups, lots of, array, divide, divided by, division, grouping, number line, left, left over, remainder

Division

1. Sharing

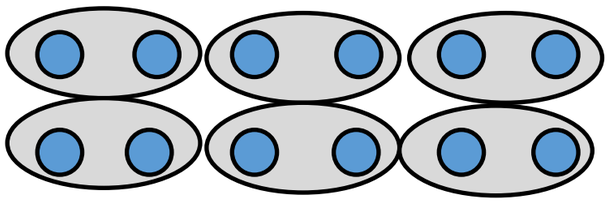


4 4 4

$12 \div 3 = 4$

12 divided by 3 equals 4.

2. Grouping

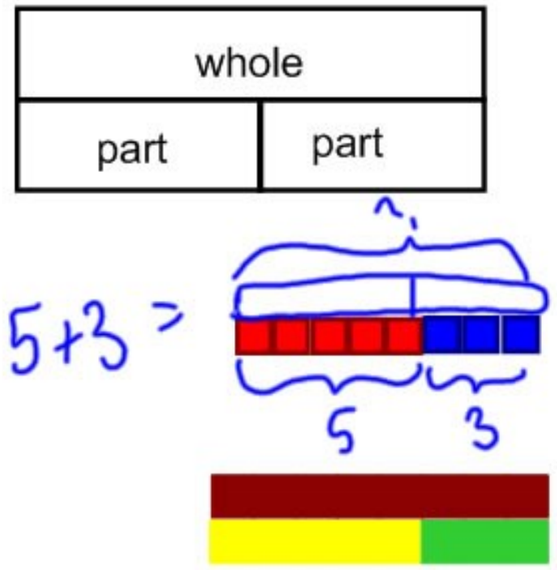


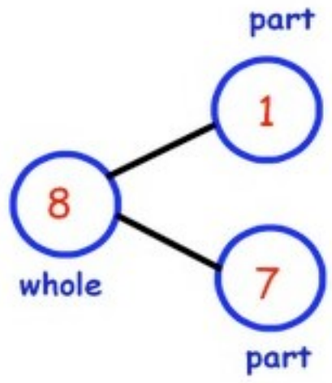
$12 \div 2 = 6$

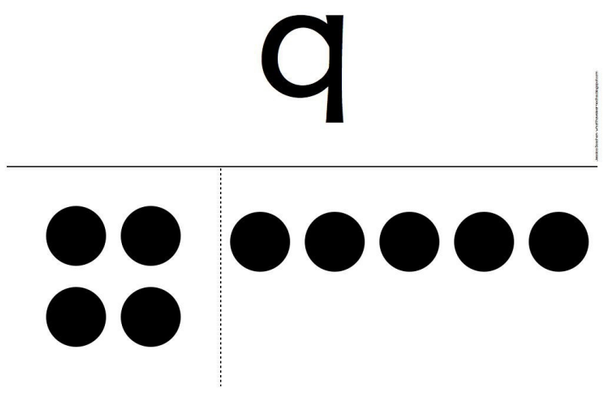
How many groups of 2 can I fit into 12? Answer: 6

Part– Part– Whole

Multiple Representation

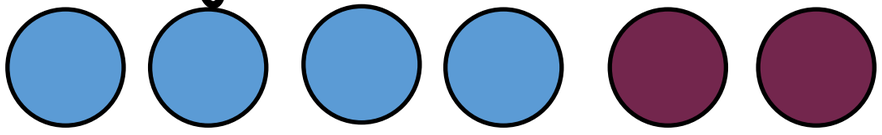




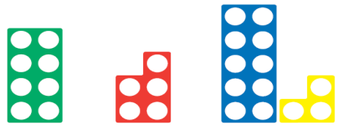


Addition

1. Objects

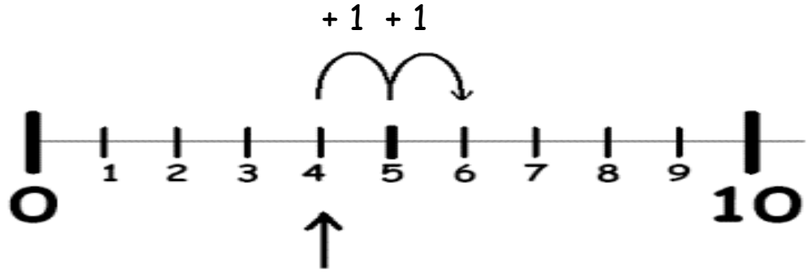


4 + 2 = 6



8 + 5 = 13

2. Counting on



4 + 2 = 6

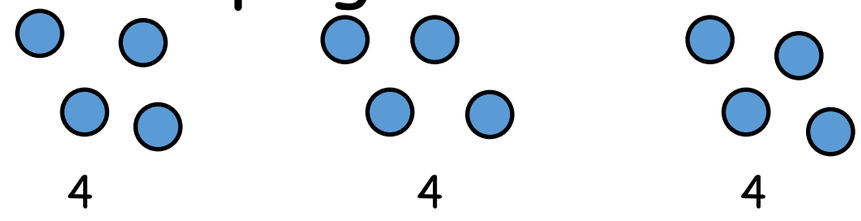
3. Number Bonds

8 + 4 + 2 = 14

10 4

Multiplication

1. Grouping



4 4 4

4 X 3 = 12

4 times 3 means 4, 3 times.

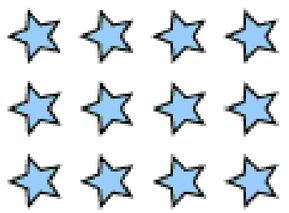
Which gives 3 groups of 4!

2. Repeated Addition

4 X 3 = 12

4 + 4 + 4 = 12

3. Arrays



4 X 3 = 12

3 X 4 = 12

Subtraction cont'd

8. Partitioning

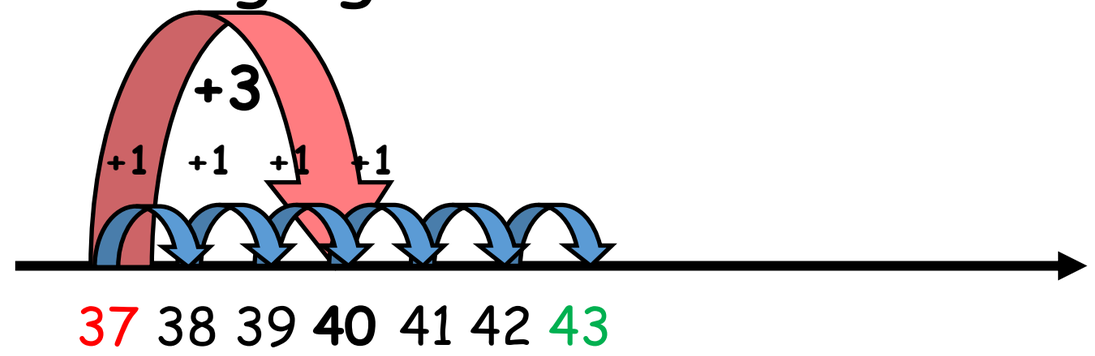
84 - 33 = 51

Tens 80 - 30 = 50

Ones 4 - 3 = 1

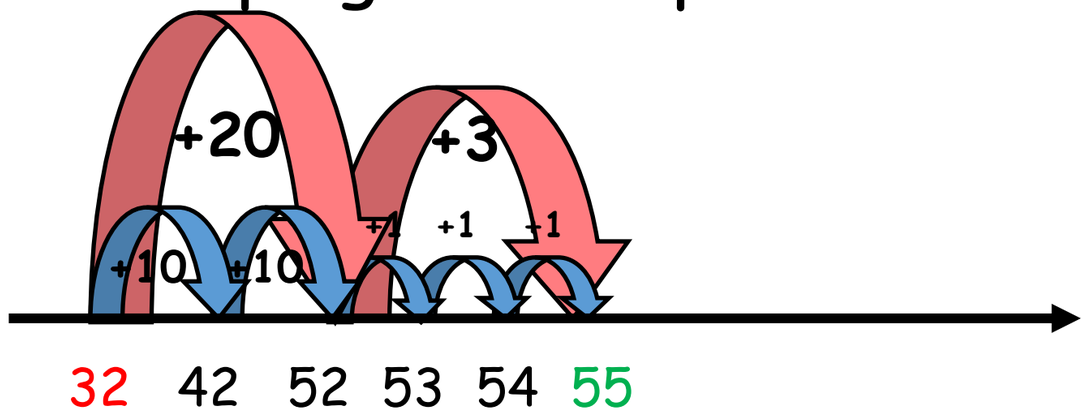
50 + 1 = 51

4. Bridging the ten



37 + 6 = 43

5. Jumping in multiples



32 + 23 = 55

Addition cont'd

6. Partitioning

45 + 23 = 68

Tens 40 + 20 = 60

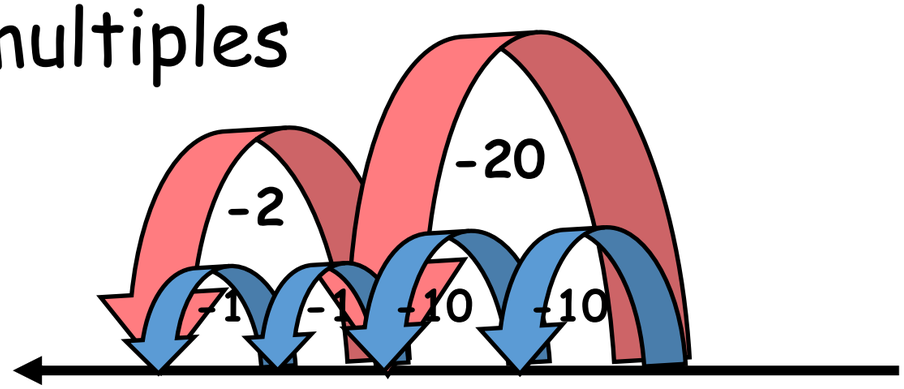
Ones 5 + 3 = 8

68

7. Column Addition

H	T	O
	8	4
+	5	7
1	4	1
		1

6. Jumping backwards in multiples



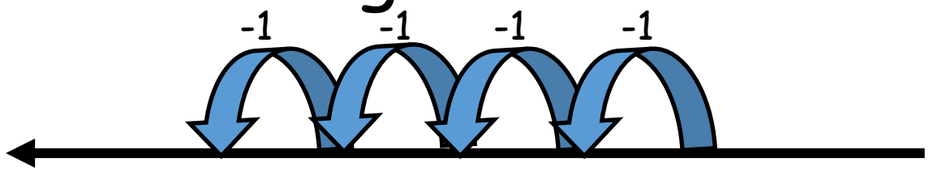
84—22 = 62

7. Column subtraction

H	T	O
	8	4
-	3	3
	5	1

Subtraction

3. Counting backwards

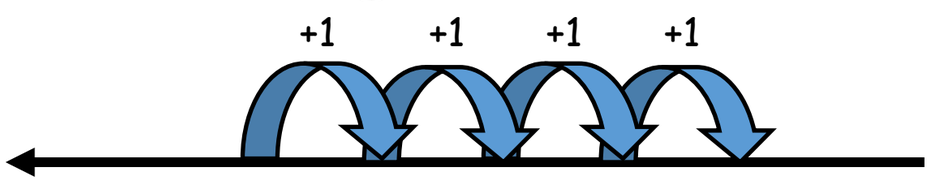


9 10 11 12 13

13—4 = 9

What do I get if I take away 4 from 13? Answer: 9

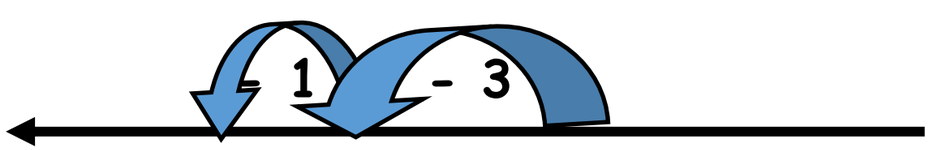
4. Counting on



9 10 11 12 13

How many more is 13 than 9? What is the difference?

5. Nearest 10

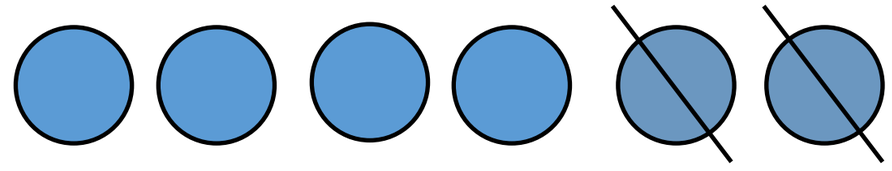


9 10 13

13—4 = 9

Subtraction

1. Objects

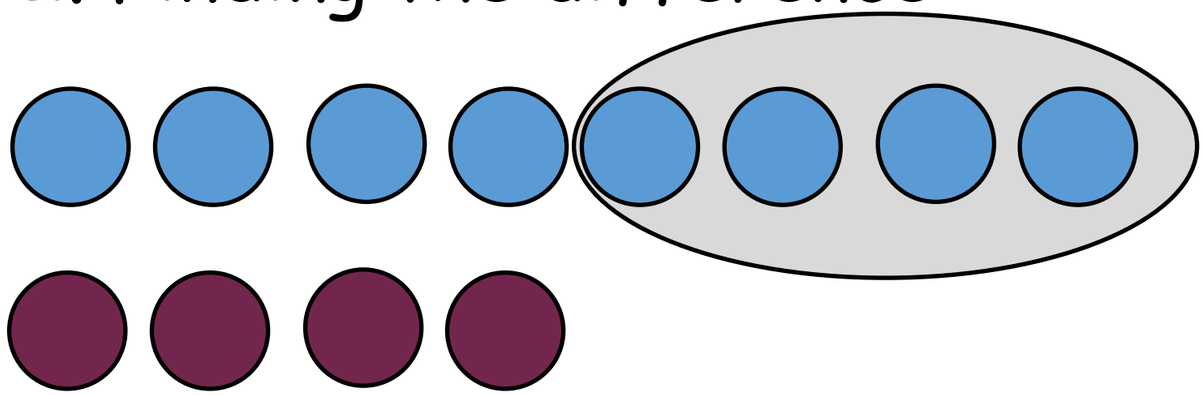


6—2 = 4

What do I get if I take away 2 from 6?

Answer: 4

2. Finding the difference



8—4 = 4

How many more is 8 than 4? Answer: 4