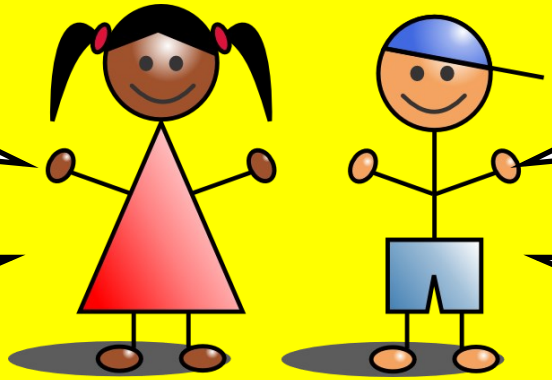
Stage 4 – Knowledge

I can read and write numbers up to 100.

I can order numbers up to 100.
E.g. 84, 29, 99, 11.
11, 29, 84, 99

I can count forwards and backwards to 100 from any number.

I can say the number before or after a given number up to 100.



I can skip forwards and backwards in 2's, 5's and 10's up to 100.

I know doubles up to 20 and the matching halves.
e.g. 7 + 7 = and 1/2 of 14 =

I know 'friends to 10'
e.g. 4 + 6 = 10
10 – 3 = 7

I know addition and subtraction facts to 10.
Eg. 5 + 3 = 8 or 9 – 4 = 5

I know symbols and words for 1/2, 1/4, 1/3, 1/5, 1/6, 1/8, 1/10.

I know groupings within 20.
E.g. 12 + 8 =

I know the number of 10's in decades.
e.g. 10's in 40 = 4

I know '10 and facts'
e.g. 10 + 3 = 13
10 + 5 = 15

I know addition and subtraction of 10's up to 100.
e.g. 30 + 40 = , 80 – 50 =

Stage 4 – Strategy

ADDITION

Solve + problems by counting on from the largest number in my head.

SUBTRACTION

Solve - problems by counting back from the largest number in my head.

Solve + and - problems by counting on or back in tens and ones

Hmmm, How do I solve that question?

MULTIPLICATION

Solve X problems by skip counting in 2's,5's or 10's

FRACTIONS

Find ½ and ¼ of sets and shapes by equal sharing.

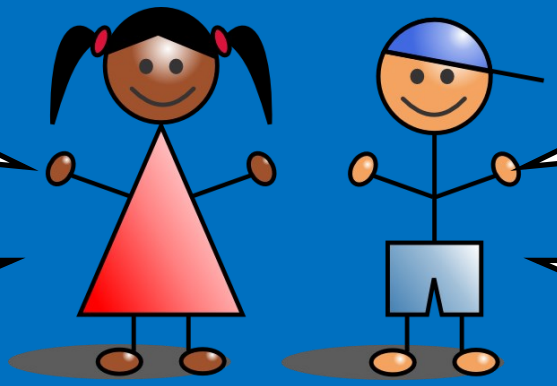
Stage 5 – Knowledge

I can read and write numbers up to 1000.

I can order numbers up to 1000. E.g. 840, 290, 990, 110.
110, 290, 840, 990.

I can skip forwards and backwards in 2's, 3's, 5's and 10's up to 100.

I can count forwards and backwards by 1's, 10's and 100's up to 1000.



I know all the 2x, 5x, 10x multiplication and division facts.

I can order fractions with the same denominator.
e.g. 1/5, 2/5, 3/5, 4/5, 5/5

I know 'friends to 20'
e.g. 14 + 6 = 20
20 – 3 = 17

I know addition facts to 20 and subtraction facts to 10.
Eg. 15 + 3 = 18 9 – 4 = 5

I know symbols and words for 1/2, 1/4, 1/3, 1/5, 1/6, 1/7, 1/8, 1/9, 1/10 and for fractions greater than 1.

I know groupings within 100.
E.g. 20 + 80 =

I know how many tens and hundreds there are in a three digit number.
e.g. 456 has 45 tens

I know 1, 10, 100 before and after a given number up to 1000

I know multiples of 100's up to 1000.
e.g. 300 + 700 = 1000

Stage 5 – Strategy

ADDITION & SUBTRACTION

Solve simple problems mentally using basic facts you know:

- Doubles: 8 + 7 = 8 + 8 - 1
- Fives: 8 + 7 = 5 + 3 + 5 + 2
- Making Tens: 8 + 7 = 8 + 2 + 5

ADDITION & SUBTRACTION

Solve 2 & 3 digit problems by:

- Tidy Numbers:

29 + 18 as 30 + 17

- Place Value:

33 + 16 as 30 + 10 + 6

MULTIPLICATION & DIVISION

Solve problems by:

- using repeated addition with problems involving 2's, 3's, 4's, 5's and 10's at least
- or forming the factors when the basic facts are known

FRACTIONS

- Find a fraction of a number by trial and improvement with addition facts
- Find fractions of shapes and lengths including fractions greater than 1.
- Order fractions

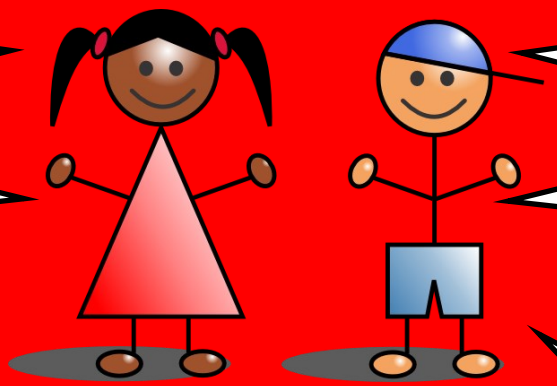
Stage 6 – Knowledge

I can count forwards and backwards by 1's, 10's, 100's and 1000's up to 1 000 000.

I know how many groups of 2, 3, 5 and 10 that are in numbers up to 100 and find the remainders.

I can read fractions and improper fractions and order forwards and backwards.

I can read and write and order numbers up to 1 000 000.



I can instantly recall basic addition and subtraction facts to 20

I can record column addition and subtraction with whole numbers up to four digits.

I can round numbers to the nearest 10, 100 or 1000.

I know how many 10's and 100's are in a 4 digit number with remainders.

I know how many tenths and hundredths are in decimals to two places and round decimals to the nearest whole number.

I know 1, 10, 100, 1000 before and after a given number up to 1 000 000.

I can count forwards and backwards in tenths and hundredths.

I can read decimals to 3 places and order decimals to 2 places.

I can recall all the basic multiplication facts up to 10 x 10 and some division facts.

I can recall groupings within 1000.
e.g. 240 + 760

I can multiply by 10, 100, 1000.

Stage 6 – Strategy

ADDITION and SUBTRACTION: using a broad range of mental strategies

Compensation (from Tidy Numbers)	394 + 79 → (394 + 80) - 1
Place Value Partitioning	394 + 79 → 390 + 70 + 9 + 4
Compatible Numbers:	45 + 37 + 65 → (45 + 65) + 37
Reversibility:	403 - 97 → 97 + ? = 403
Equal Additions: (add to both numbers)	403 - 97 → 406 - 100
Standard written form for Addition	4394 + 579
Standard Written form for Subtraction	2403 - 1097

FRACTIONS: using Multiplication and Division strategies

Find fractions of whole numbers	$^3/_4$ of 24 = ? $^3/_4$ of what is 21?
Solve simple equivalent ratio and rate problems	2 : 3 so ? : 6
Compare fraction sizes with whole numbers	$^{37}/_7 = 5\,^2/_7$

MULTIPLICATION & DIVISION: Deriving multiplication facts

Doubling	8 x 3 → 2 x (4 x 3)
Adding and Subtracting	8 x 3 → (7 x 3) + 3
Reversing	63 ÷ 9 → 9 x ? = 63
Doubling and halving	3 x 12 → 6 x 6
Rounding/Compensation:	9 x 6 → (10 x 6) - 6
Multiplying by tens and hundreds	70 x 5 → 7 x 5 x 10