Addition Workshop for Parents

Friday 13th November

Year 1

National Curriculum

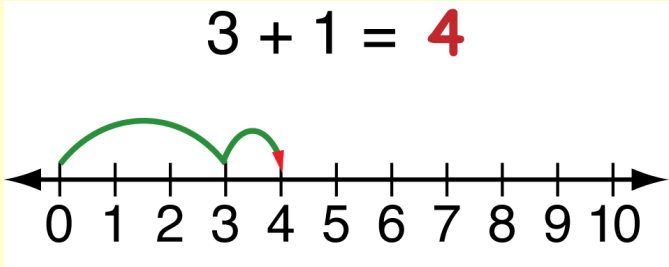
- Make and use number bonds within 20.
- Read, write and interpret mathematical statements involving addition.
- Add one-digit and two digit numbers to 20, including zero.

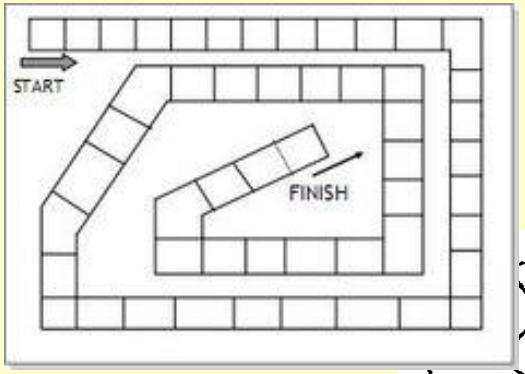
How to help at home:

- Children do counting tasks.
- In play/daily routines ask:

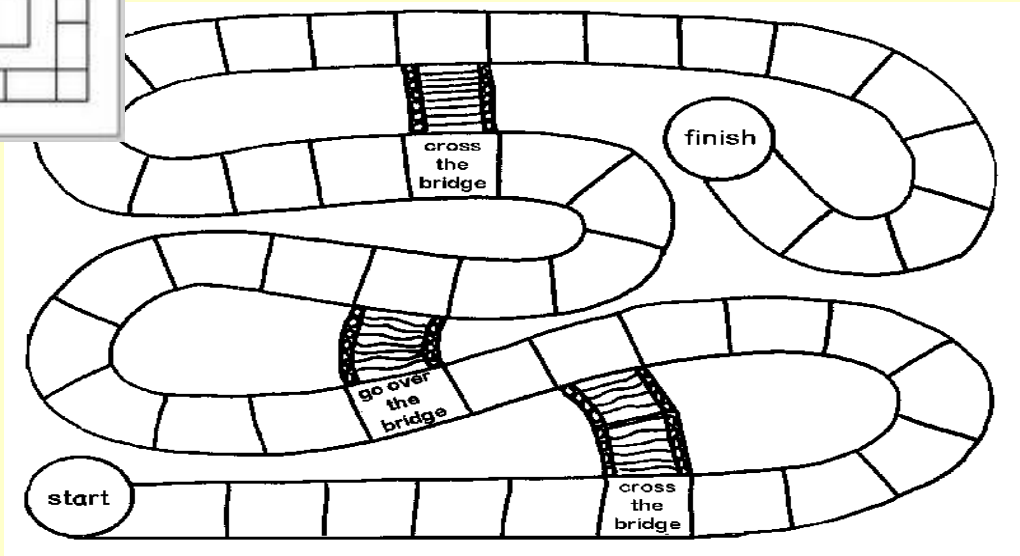
Can you give me 1 more…2 more?

- Blank track games



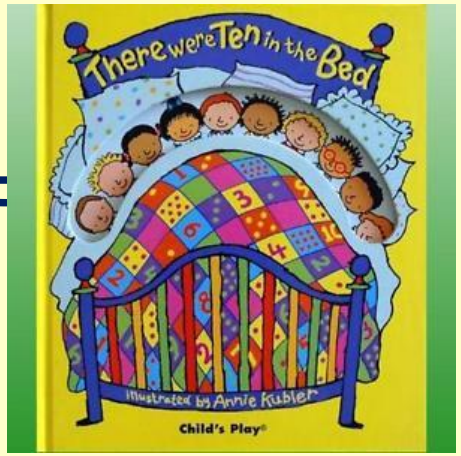


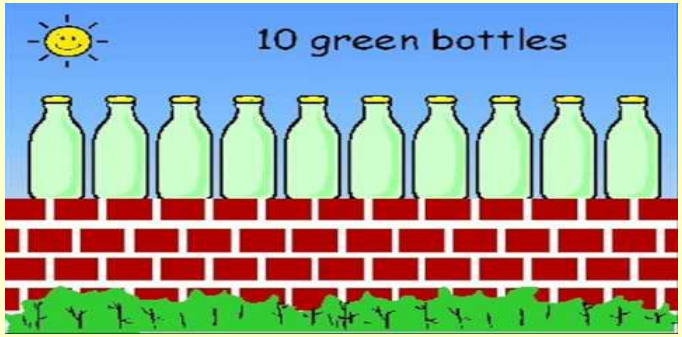
- 1-6 dice
- 0-9 dice
- 1-6 dice with 1 more
- 0-9 with 1 more
- 1-6 with 1 less
- 0-9 with 1 less
- Two 1-6 dice



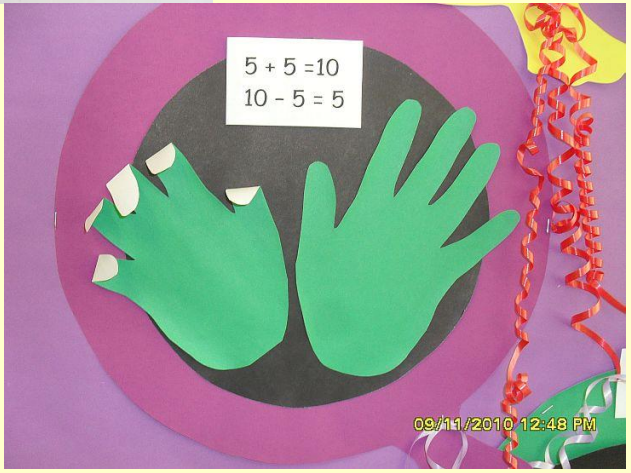
- Number rhymes and books

10-1= 9-1= 8-1= 7-2=





- Taking 1 away with foo



- Taking away on fingers

Knowing finger patterns

- Number bonds for making 1,2,3…20

Making 1

0 + 1 = 1	1 – 0 = 1
1 + 0 = 1	

Making 2

0 + 2 = 2	2 – 0 = 2
1 + 1 = 2	2 – 1 = 1
2 + 0 = 2	2 – 2 = 0

Making 3

0 + 3 = 3	3 – 0 = 3
1 + 2 = 3	3 – 1 = 2
2 + 1 = 3	3 – 2 = 1
3 + 0 = 3	3 – 3 = 0

Making 4

0 + 4 = 4	4 – 0 = 4
1 + 3 = 4	4 – 1 = 3
2 + 2 = 4	4 – 2 = 2
3 + 1 = 4	4 – 3 = 1
4 + 0 = 4	4 – 0 = 4

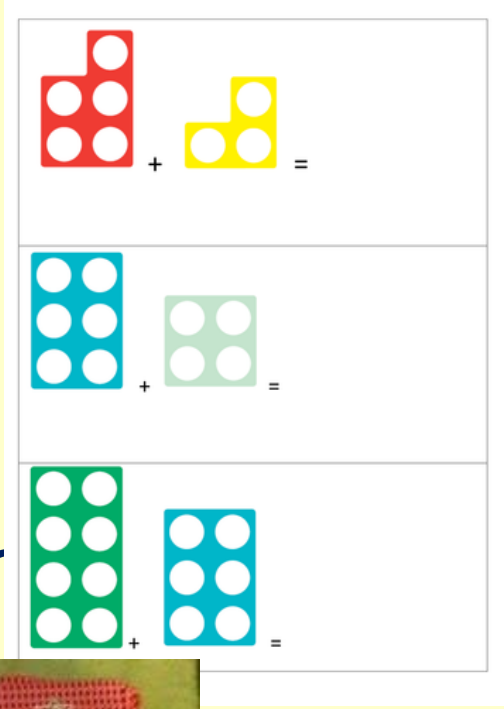
Making 5

0 + 5 = 5	5 – 0 = 5
1 + 4 = 5	5 – 1 = 4
2 + 3 = 5	5 – 2 = 3
3 + 2 = 5	5 – 3 = 2
4 + 1 = 5	5 – 4 = 1
5 + 0 = 5	5 – 5 = 0

Making 6

0 + 6 = 6	6 – 0 = 6
1 + 5 = 6	6 – 1 = 5
2 + 4 = 6	6 – 2 = 4
3 + 3 = 6	6 – 3 = 3
4 + 2 = 6	6 – 4 = 2
5 + 1 = 6	6 – 5 = 1
6 + 0 = 6	6 – 6 = 0

Addition

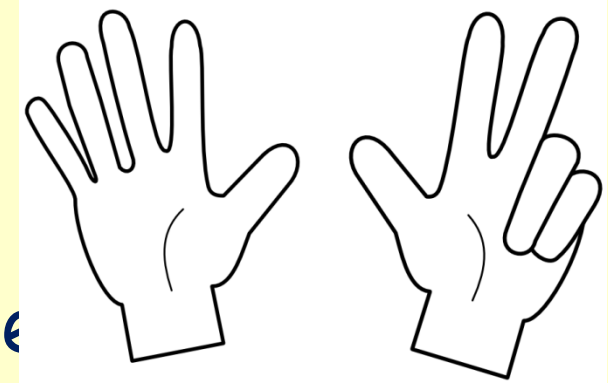


10+2=

- Counting out both sets
- Counting on from bigger number
- Doing it mentally
- Instant recall

addition war card game

5+3

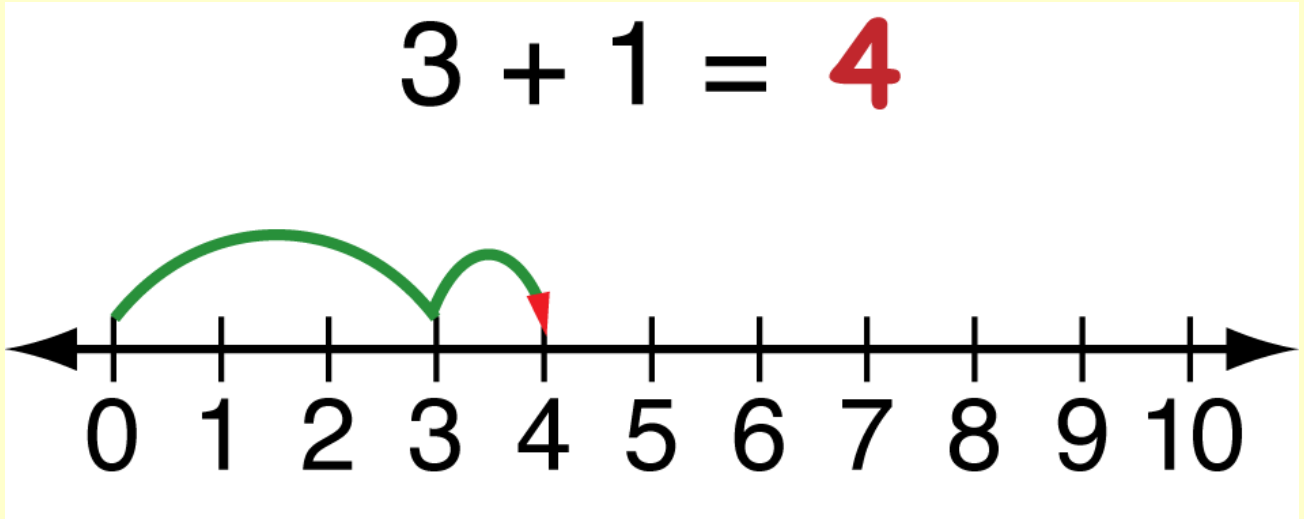


Year 1

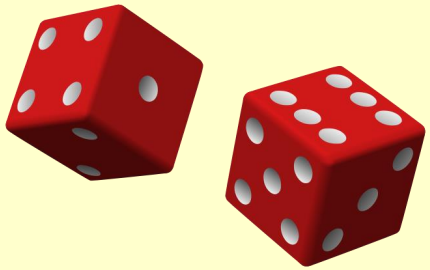
1. Start by practically working out number bonds to and within 20.

2. Use pictures and marks to find 1 more/2 more.

3. Progress on to using number lines to calculate within 20.



Dotty 6 Game



3

4

2

1

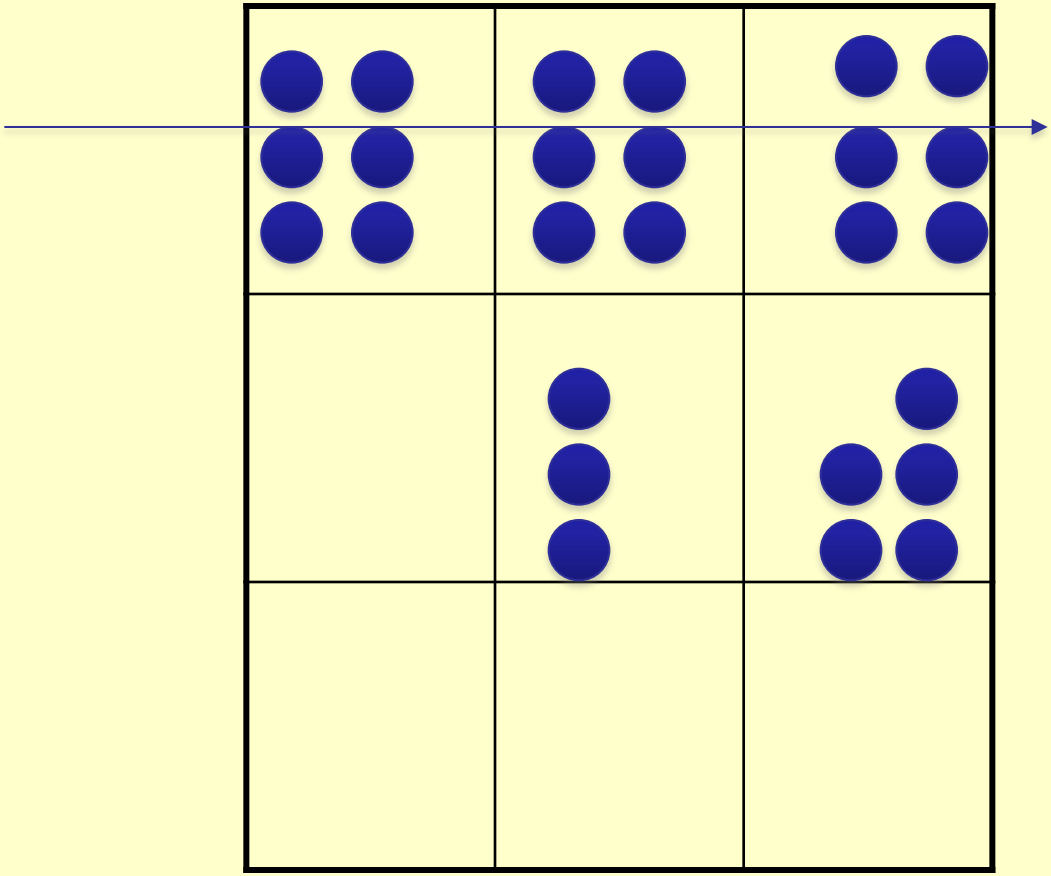
5

3

5

1

2

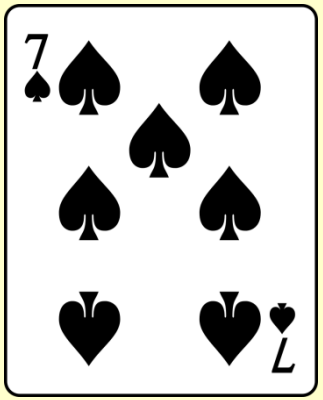


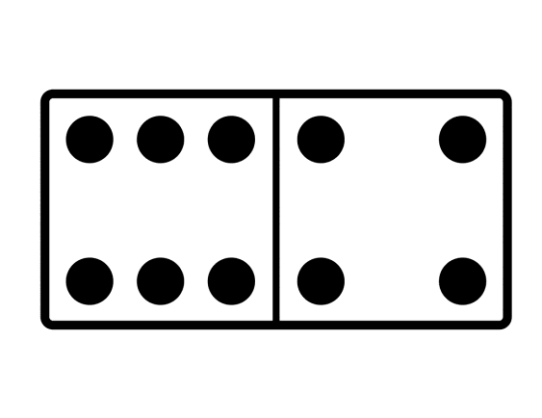
Green wins!

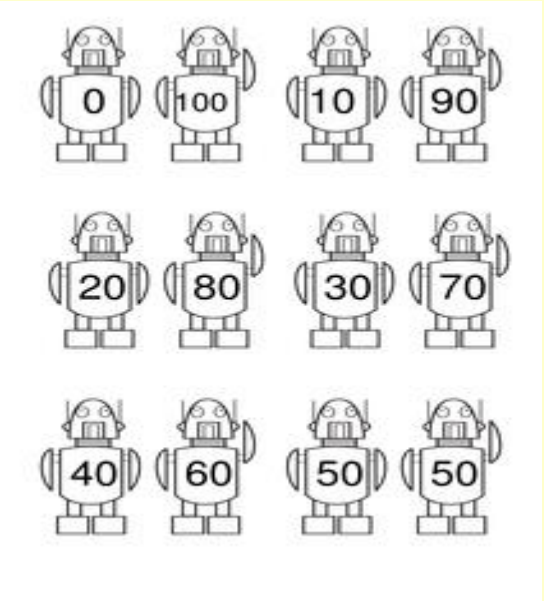
Year 2

Mental Calculations/Known facts:

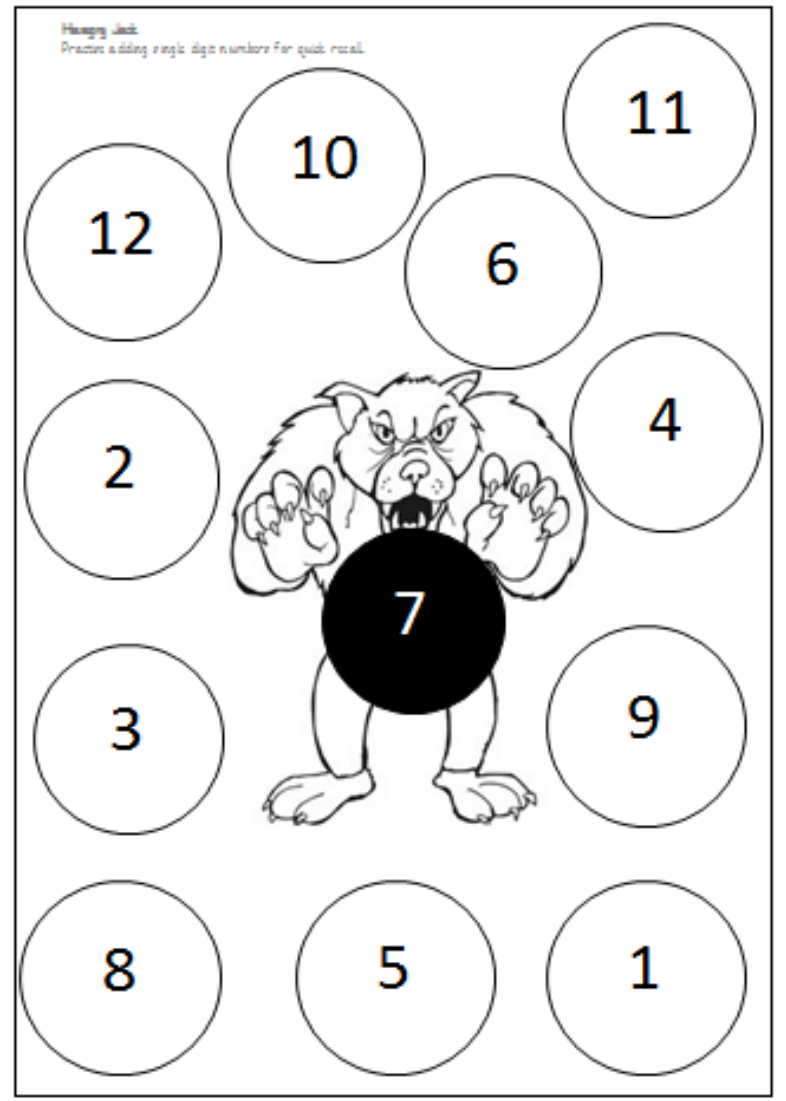
- Recall and use number bonds to and within 20.
- Derive and use related number facts to 100.

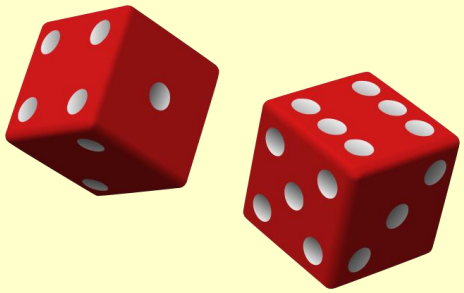






Hungry Jack Game





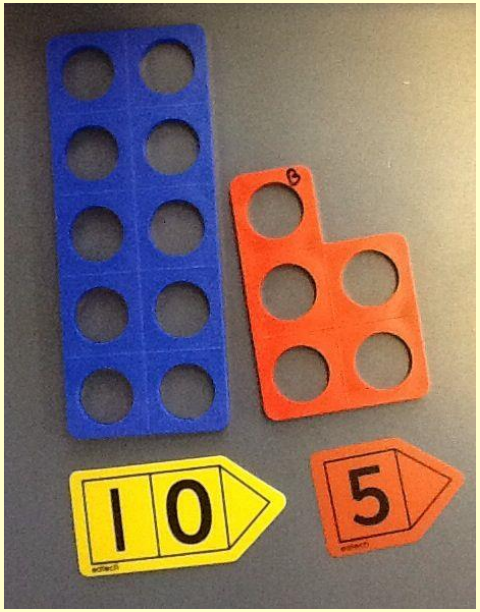
Year 2

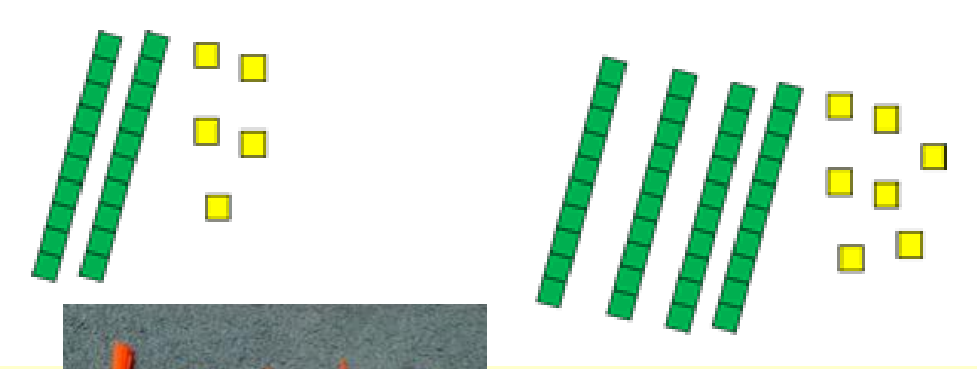
Children are expected to add numbers using concrete objects, pictorial representations and mentally including:

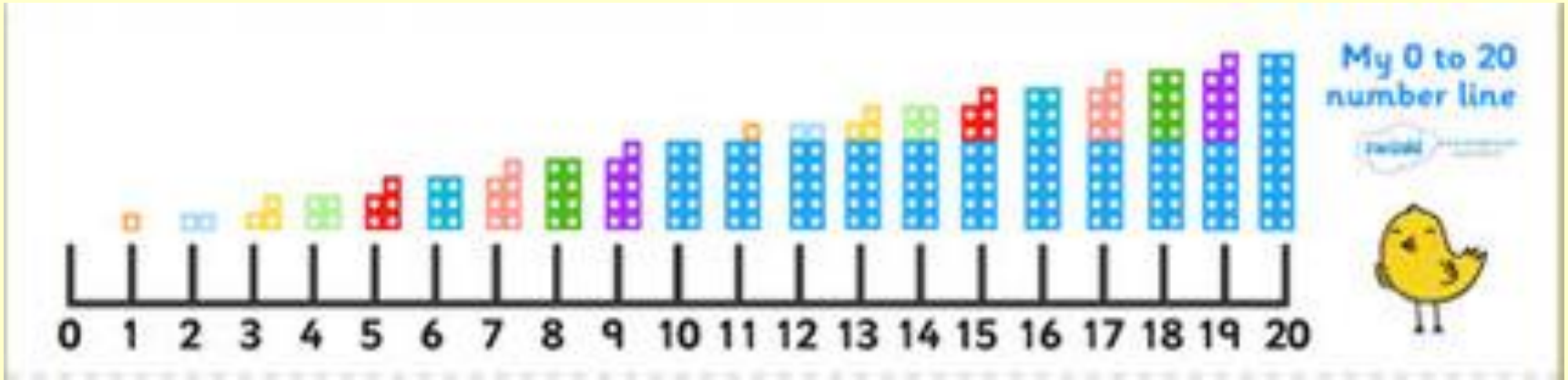
- a two digit number and ones e.g. 25 + 6
- a two digit number and tens e.g. 43 + 30
- two, two digit numbers e.g. 35 + 52
- three single digit numbers e.g. 4 + 6 + 8

Place value

- Understanding the value of each digit







Year 2

1. Add numbers practically using objects.
2. Add using pictorial representations.
3. Add using number lines.
4. Progress into partitioned columnar method in preparation for Year 3.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Year 3

Mental Calculations:

Children are expected to be able to mentally add:

- a three digit number and ones e.g. 143 + 6 or 657 + 7
- a three digit number and tens e.g. 267 + 20 or 826 + 50
- a three digit number and hundreds e.g. 281 + 400 or 628 + 300

Year 3

Written Methods

Children are expected to add up to 3 digit numbers using formal written methods of columnar method.

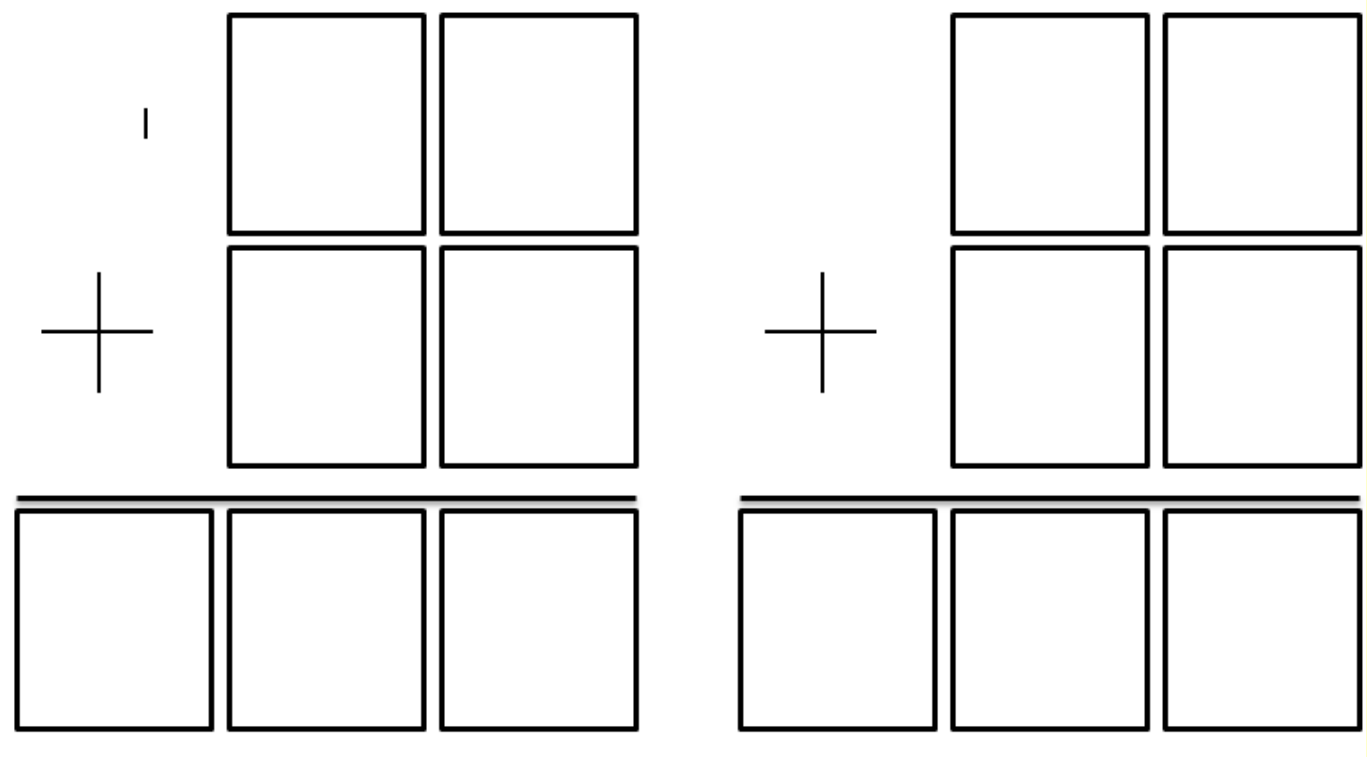
Year 3

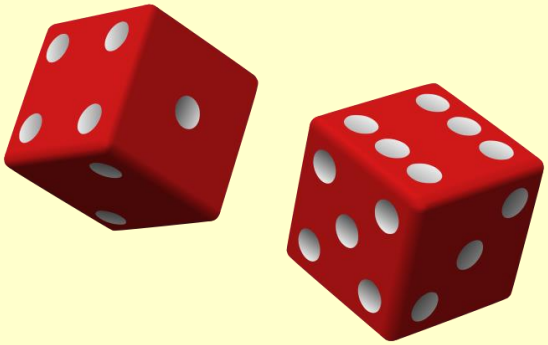
1. Continue with the partitioned columnar method.
2. Start the expanded columnar method.
3. Progress to the compact columnar method.
4. Add money using pounds and pence practically.

	H	T	O
	2	3	6
+		7	3
			9
	1	0	0
	2	0	0
	3	0	9

TO	HTO	TO	HTO	TO	HTO
23	315	94	561	47	237
+ 42	+ 624	+ 73	+ 718	+ 25	+ 516
65	939	167	1279	72	753
				1	1

Columnar Method Game





Year 4

National Curriculum

- Use the formal method of columnar method with up to 4 digits.
- Add money using both pounds and pence.

	H T O		H T O		Th H T O
	3 7 1		3 7 6		2 3 8 8
+	4 8 5	+	4 8 5	+	1 1 2 4
	8 5 6		8 6 1		3 5 1 2
	1		1 1		1 1

Year 5

Mental Calculations

Children should be able to add numbers mentally with increasingly large numbers.

Year 5

Children are expected to add whole numbers with more than 4 digits using formal columnar written methods.

	3	2	8	7	9
+	3	5	9	8	7
	6	8	8	6	6

1	9	·	0	1
	3	·	6	5
+	0	·	7	0
2	3	·	3	6
1	1			

£	2	3	·	5 9
+	£	7	·	5 5
£	3	1	·	1 4
	1	1		1

Year 5

- Continue to use the columnar method with more than 4 digits.
- Add money in pounds and pence using decimals.

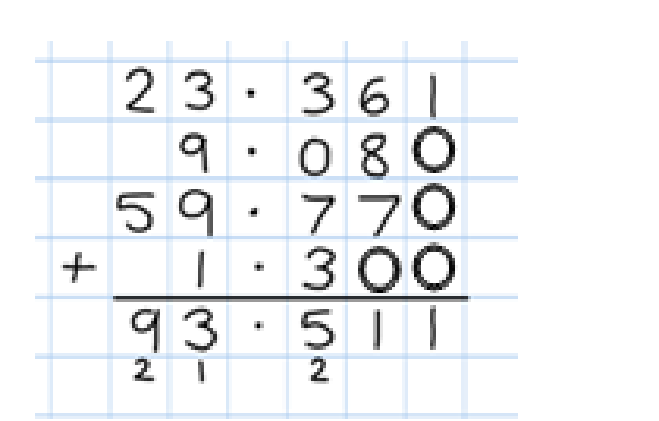
	3	2	8	7	9
+	3	5	9	8	7
	6	8	8	6	6

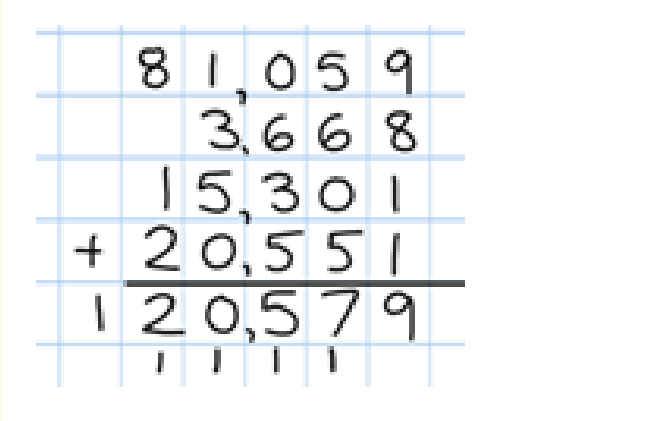
1	9	.	0	1
	3	.	6	5
+	0	.	7	0
2	3	.	3	6
1	1			

£	2	3	.	5 9
+	£	7	.	5 5
£	3	1	.	1 4
	1	1		1

Year 6

- Perform mental calculations, including mixed operations and large numbers.
- Solve addition multi step problems in contexts, deciding which operations and methods to use and why.





Closest to 100

Top tips

- Check **youtube for demo's**
- Ask us!
- Check the calculation policy on the internet
- Play card and dice games
- Play computer games:

www.woodlands-junior.kent.sch.uk/MATHS/interactive/index.htm

www.multiplication.com/games/**addition-games**

www.fun4thebrain.com/addition.html

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