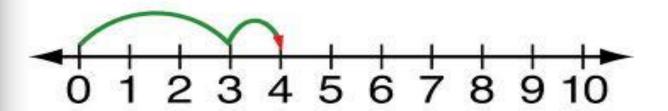
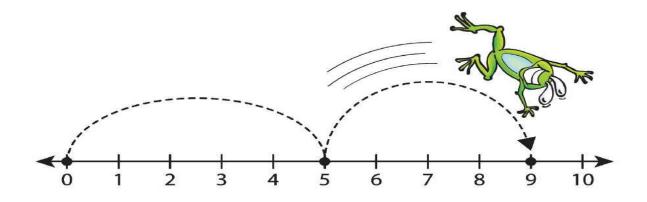
Maths Workshop

Saxilby C of E Primary School

Progress towards using number lines...

$$3 + 1 = 4$$







Progress towards using a hundred square and knowing bonds to 20...

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



Place value and counting... the building blocks....

Knowing and understanding that:

- 45 = 4 tens and 5 units
- Counting in tens from any number starting with numbers to 100

(see KIRFs for help on these)

Saxilby teaches concepts and understanding (the what and the why) before the procedure (the how)



Mental strategies develop alongside

- Doubles e.g. 14 + 14, 138+138
- Near doubles e.g. 14+15 (same as 15+15 but take one away)
- Counting up 28+46 (start with 46 then add 20 then add 8)
- Near multiples of ten 29+34 (29 is close to 30 so add 30 to 34 then subtract the extra one)
- More to follow on mental methods later in the year...



Partitioning...

Partitioning involves splitting a number into tens and units

Partitioned numbers are then written under one another:

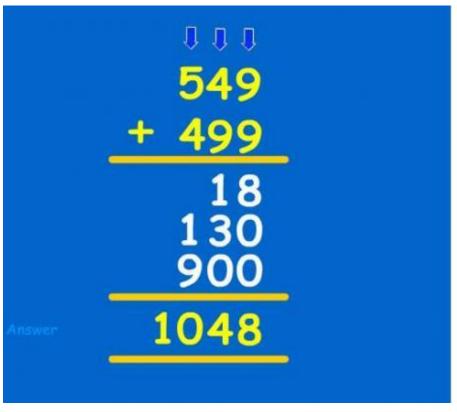
$$47 = 40 + 7$$

$$+ \frac{76}{110 + 13} = 123$$



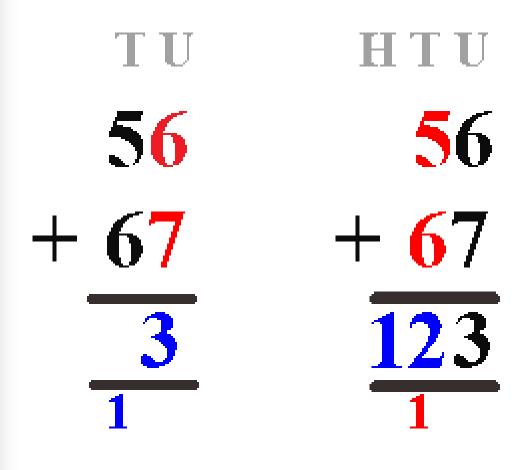
Expanded Written Method

Begin with the least significant digit





Standard Written Method

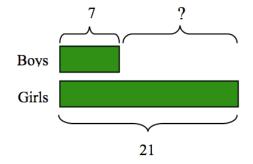




As calculating develops, these skills are also developed...

- Estimate answers
- Check by doing an inverse operation (a to check a + calculation)
- What is most efficient way to calculate?
- Missing numbers e.g. ?+27 = 49
- Number balances e.g. ?+47 = 26+43
- Solving word problems
- Bar method visual can help:

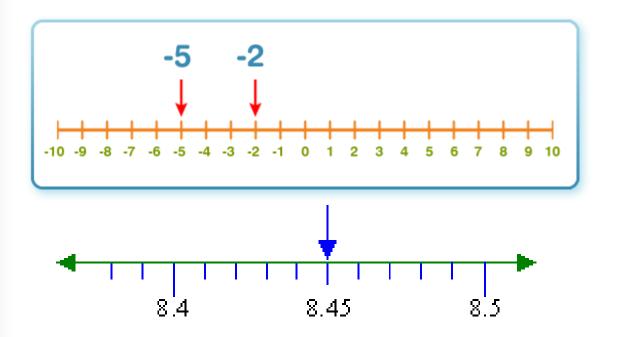
www.bbc.co.uk/skillswise/0/24925787





Begin process to extend to negative numbers and decimals

 Go back to practical then visual before written calculations

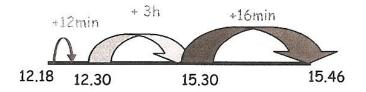


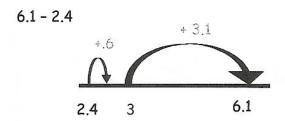


Jottings and Blank Number Lines are acceptable to solve problems, even in Y6!

The train leaves at 12.18 and arrives at 15.46. How long is the journey?

The journey takes 3h 28min





$$3.1 \div 0.6 = 3.7$$



Adding fractions...must be practical and visual first...

With denominators that are the same...

3/8 + 1/8 (Year 4)

With denominators that are not the same...

2/8 + 3/16 (Year 6)