Maths - Year 2

Calculating 4: Adding and subtracting whole tens

Key Vocabulary

|	
Subtract	Taking one amount from another.
Add	Combine two or more amounts to make a total.
Tens	Refers to the number of tens in a number e.g. on a place value grid.
Whole tens/Tens numbers/ multiples of 10	The result of multiplying a number by 10. Numbers in the ten times tables e.g. 10, 20, 30, 40, 50 etc.
Altogether/ together/total	The result of adding two or more amounts together.
Equals	The same in number or amount.

Mathematical Skills

- Have fluent recall of adding and subtracting facts within 10.
- Use these facts when adding and subtracting whole tens.
- Write adding and subtracting facts in columns.
- Understand column and quantity values of multiples of 10.
- Connect adding and subtracting multiples of 10 with coin values.

Mathematical Methods

- Beginning to use adding facts within 10 to add whole tens e.g. Benches are being set out in the hall for assembly and 10 children are able to sit on each bench. There are going to be 3 benches on one side of the hall and 3 on the other. How many children can sit on the benches altogether?

- Using adding facts within 10 to add whole tens.

40 add 40 is equivalent to 4 tens add 4 tens,
4 tens add 4 tens equals 8 tens (4 + 4 = 8)
8 tens are equivalent to 80, so
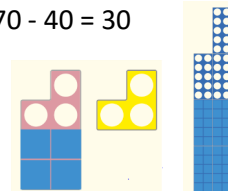40 add 40 must equal 80.
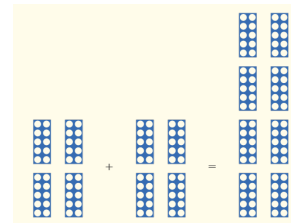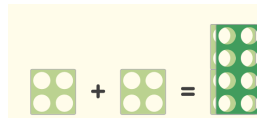
- Using a tens and units frame for adding.
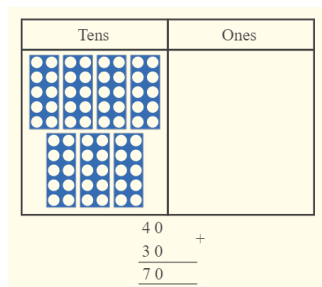
- Beginning to use subtracting facts within 10 to subtract whole tens e.g.

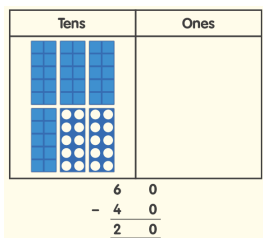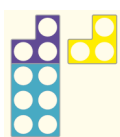|	
90 children are sitting on the benches and 60 children leave to go back to class.	90 - 60 = 30
The children have 9 pencils and 6 are broken. How many are left?	9 - 6 = 3

- Using subtracting facts within 10 to subtract whole tens e.g. 7 - 4 = 3 so 70 - 40 = 30

- Using a tens and units frame for subtracting.

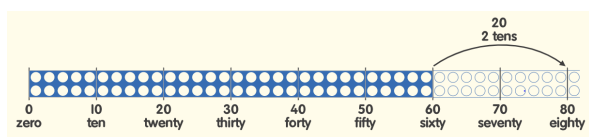| Tens	Ones

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  6   0
- 4   0
  2   0
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- Finding the difference between whole tens numbers e.g. 90 children were sitting on benches on one side of the hall and 60 on the other. Find the difference between the number of children on each side.

9 - 6 = 3

9 tens - 6 tens = 3 tens

90 - 60 = 30

- Finding 'how many more?' with whole tens.

20
2 tens

0	10	20	30	40	50	60	70	80
zero	ten	twenty	thirty	forty	fifty	sixty	seventy	eighty

- Learning whole tens adding and subtracting facts to 100.

1 + 9 = 10	10 + 90 = 100	10 – 1 = 9	100 – 10 = 90
2 + 8 = 10	20 + 80 = 100	10 – 2 = 8	100 – 20 = 80
3 + 7 = 10	30 + 70 = 100	10 – 3 = 7	100 – 30 = 70
4 + 6 = 10	40 + 60 = 100	10 – 4 = 6	100 – 40 = 60
5 + 5 = 10	50 + 50 = 100	10 – 5 = 5	100 – 50 = 50
6 + 4 = 10	60 + 40 = 100	10 – 6 = 4	100 – 60 = 40
7 + 3 = 10	70 + 30 = 100	10 – 7 = 3	100 – 70 = 30
8 + 2 = 10	80 + 20 = 100	10 – 8 = 2	100 – 80 = 20
9 + 1 = 10	90 + 10 = 100	10 – 9 = 1	100 – 90 = 10
		10 – 10 = 0	100 – 100 = 0

- Whole tens adding facts with money.
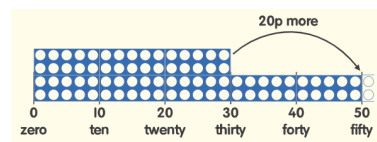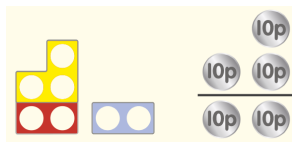
50p

20p

10p + 10p = 10p
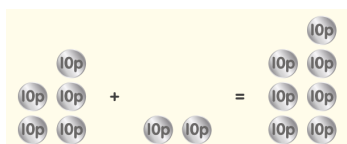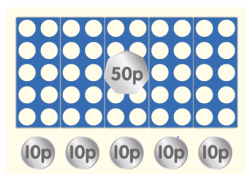
- Whole tens subtracting facts with money e.g. 7 - 3 = 4 so 70p - 30p = 40p.

10p 10p
10p 10p
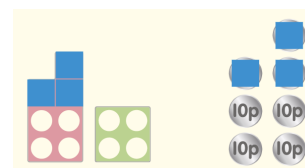
- 'More than' and 'less than' problems with whole ten facts e.g. Rose has saved 50p and Isla has saved 30p. How much more has Rosie saved then Isla?

(30 + □ = 50, or 3 tens + □ = 5 tens).

10p
10p 10p
10p 10p

20p more

0	10	20	30	40	50
zero	ten	twenty	thirty	forty	fifty

Can you..?

- Which one of these number sentences helps you to solve 60 + 20?

5 + 3 = 8

7 + 1 = 8

6 + 2 = 8

4 + 4 = 8

- Can you explain how to solve 90 - 50 =?