Number Facts: Year 2

Number and place value

Pupils should be taught to:
- count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward

Addition and subtraction

Pupils should be taught to:
- recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
- recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.

Multiplication and division

Pupils should be taught to:
- recognise, find, and name a half as one of two equal parts of an object, shape, or quantity
- recognise, find, and name a quarter as one of four equal parts of an object, shape, or quantity

Fractions

Pupils should be taught to:
- recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity
- write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$
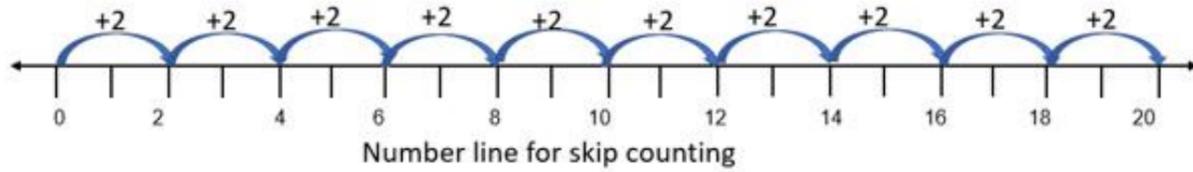
Measurement

Pupils should be taught to:
- compare and sequence intervals of time .
- know the number of minutes in an hour and the number of hours in a day

Number Facts: Number and place value

- Know the sequence of counting in multiples of 3.
- Count in steps of 10 from any number.

Number Facts: Addition and subtraction

- Know number bonds and related subtraction facts to 20
- Derive number bonds to 100 using multiples of 10, relating this to known number bonds to 10 (from Y1)
- Add and subtract numbers to 100 using informal methods, manipulative resources and visual representations,

Number facts: Multiplication and division

- Know the 2x, 5x and 10x times table and the related division facts.
- Recognise odd and even numbers.
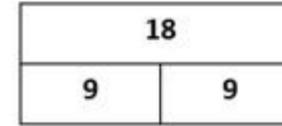
Number Facts: Measure

- 100p = £1   50p+50p= £1
- 100 cm = 1metre
- One hour = 60 minutes
- $\frac{1}{2}$ an hour = 30 minutes
- $\frac{1}{4}$ of an hour = 15 minutes
- $\frac{3}{4}$ of an hour = 45 minutes
- There are 24 hours in a day
- Recite the months of the year in the correct order

Number Facts: Fractions

- $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$ = 1 whole
  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$
- 1 whole $- \frac{1}{4} = \frac{3}{4}$
- $\frac{2}{4} = \frac{1}{2}$
- Halve all even numbers to 20

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Mathematical models and images to support conceptual understanding underpinning key facts in Year 2

+2 +2 +2 +2 +2 +2 +2 +2 +2 +2

0 2 4 6 8 10 12 14 16 18 20

Number line for skip counting

Partitioning 28 into 20 and 8

28 → 20, 8

$9 + 9 = 18$

18 → 9, 9

Half of 18 is 9

18 | 9 | 9

100-square for skip counting in tens from any number

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
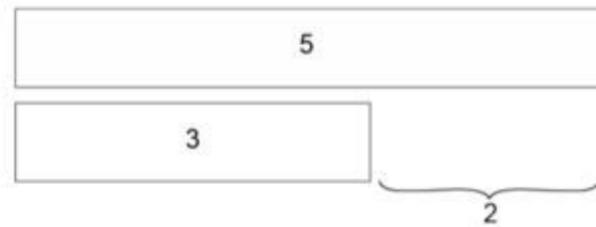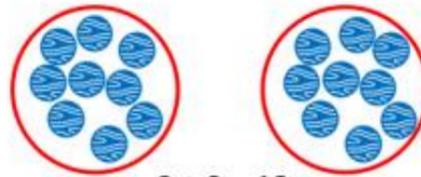
Finding the difference using a bar model and a number line

5
3
2
2

0 1 2 3 4 5

Base 10 material and equations to support adding a multiple of 10

so
$4 + 3 = 7$
$40 + 30 = 70$
$45 + 30 = 75$

$45 + 23 = 60 + 8 = 68$
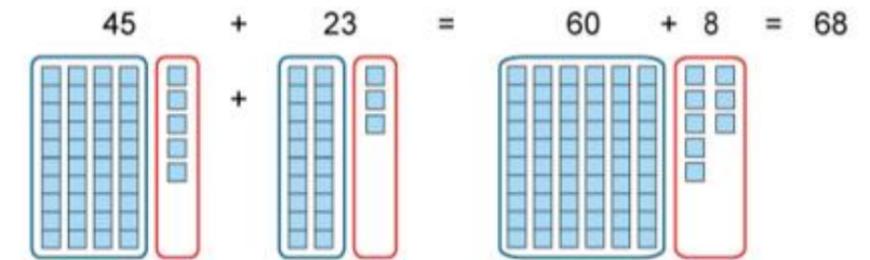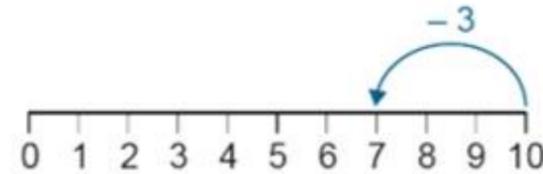
Base 10 material and equations to support adding 2 two-digit numbers
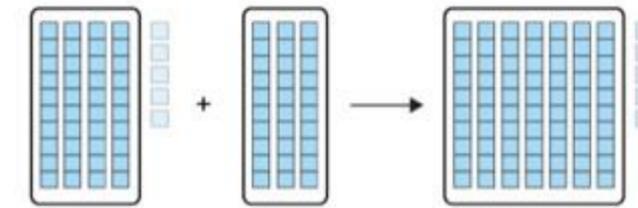
$10 - 3 = 7$

$30 - 3 = 27$

Tens frames with counters and number lines to support subtracting ones from a multiple of 10

−3
0 1 2 3 4 5 6 7 8 9 10
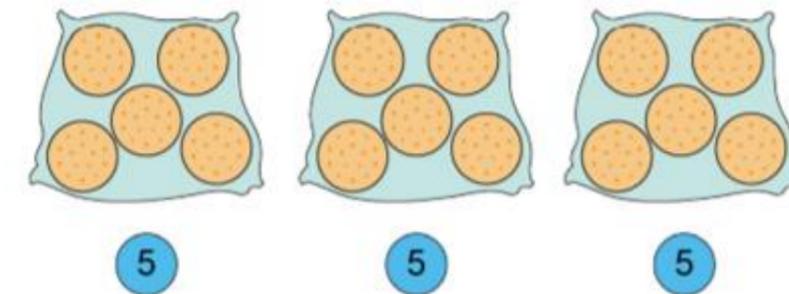
−3
20 21 22 23 24 25 26 27 28 29 30

5 5 5

Three bags of five biscuits with three 5-value counters to support skip counting for $3 \times 5 = 15$