Place Value and Addition

Year 2 Autumn Term Week 3 Lesson 2

Today we will be learning to:

- add mentally a pair of multiples of 10
- read and write numerals
- use mental strategies to solve calculations.

Mental Activity

If I want to have a total of 10.

What would I have to add to 6?

If I want to have a total of 10.

What would I have to add to 7?

If I want to have a total of 10.

What would I have to add to 1?

If I want to have a total of 10.

What would I have to add to 5?

I start with 10.

I take away some.

If the answer is 6, what was the question?

10 – 4 = 6

I start with 10.

I take away some.

If the answer is 1, what was the question?

10 – 9 = 1

If I start with 10.

I take away some.

If the answer is 5, what was the question?

10 – 5 = 5

Main Activity

Today we are going to add tens.

Solve this problem.

40 + 30 = ?

We could solve it using number bonds to 10.

What does 4 + 3 =?

4 + 3 =7

So what does 4 tens and 3 tens equal?

7 tens

7 tens is the same as 70.

We could use a hundred square.

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

First add 40

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

First add 40

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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

Then add 30

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
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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

What is the total number? 70

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
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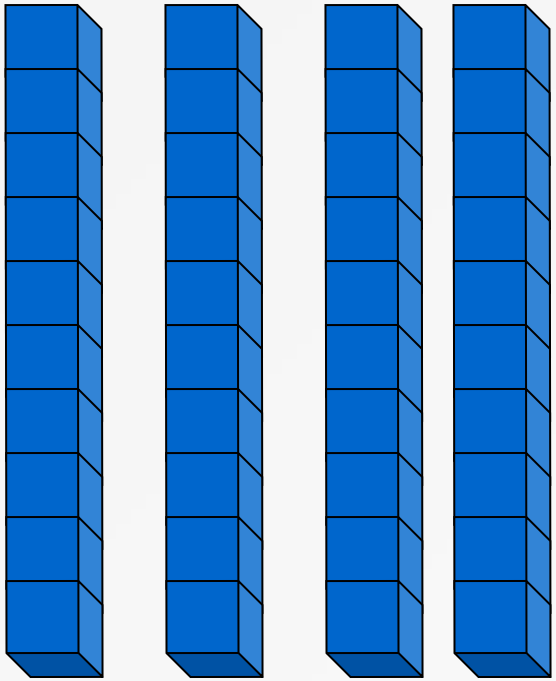
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

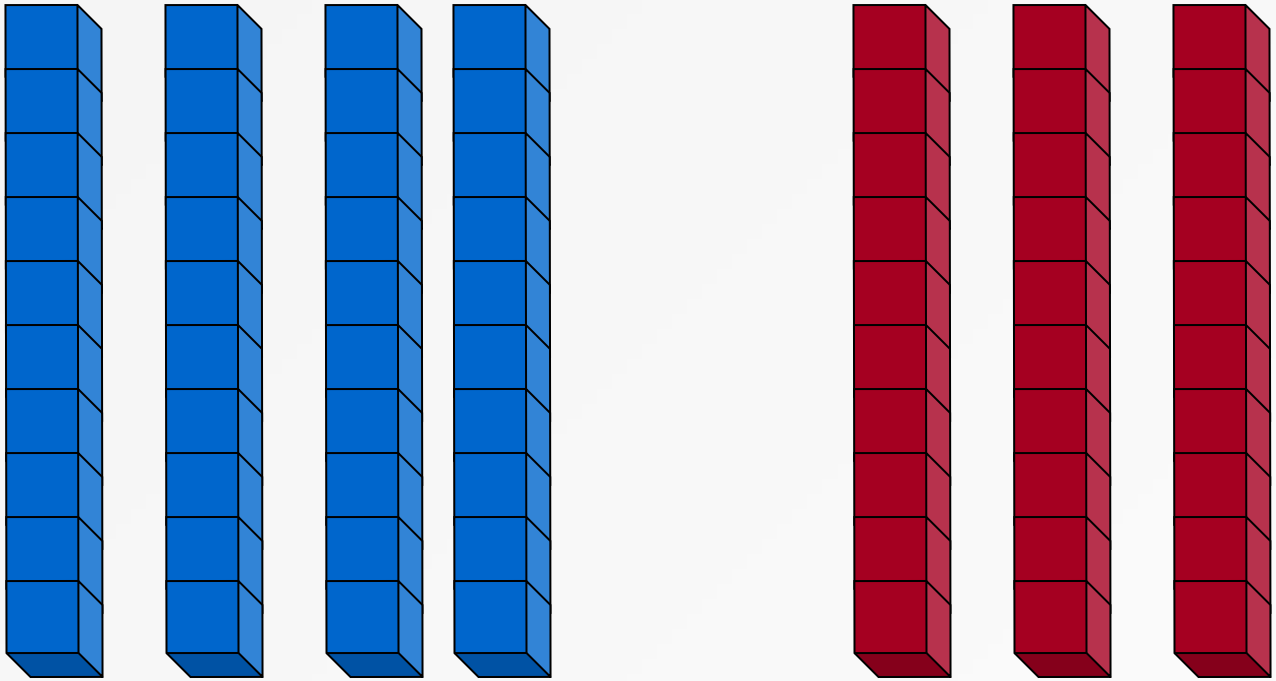
We could also solve this by using base 10 apparatus.



What number does this represent?

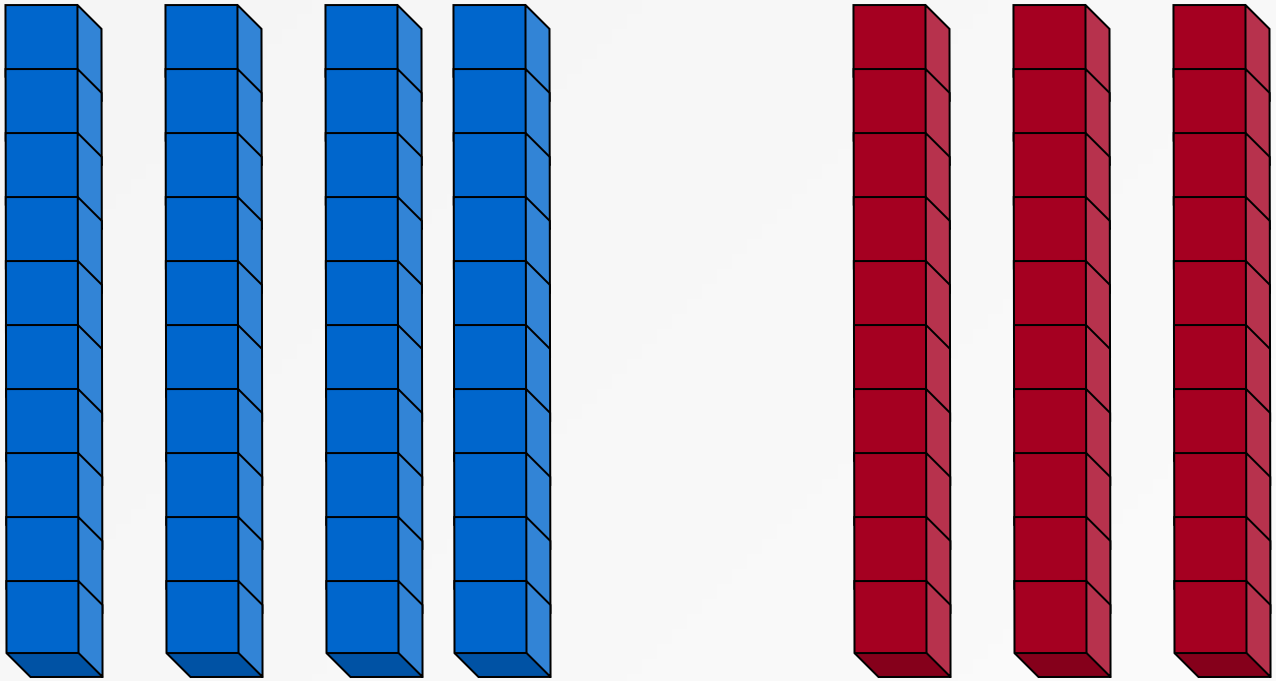
40

We could also solve this by using base 10 apparatus.



What number does this represent?

We could also solve this by using base 10 apparatus.



What is the total number represented?

‘Collect the tens’

Get into groups of two or three.

Collect 2 dice.

One dice is a dice numbered 1, 1, 2, 2, 3, 3.

The other dice is a 1-6 dice.

All ready?

Rules of the game

Throw both dice.

Multiply the number on each dice by 10.

Collect this number in base 10 material.

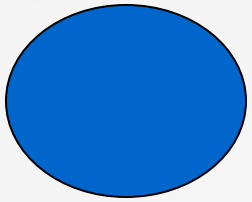
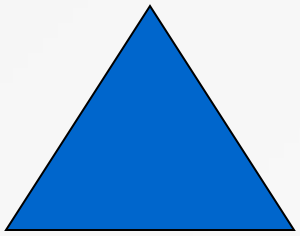
Total and record.

Rules of the game

If you have the highest total in your group, you win and collect a counter.

The child with the most counters at the end of the game wins.

Group Work

	Play ‘Collect the tens’.
	Play ‘Collect the tens’ using two dice 1-6.
	Play ‘Collect the tens’ without apparatus or hundred squares to help. Start by playing with two dice 1-6.

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