

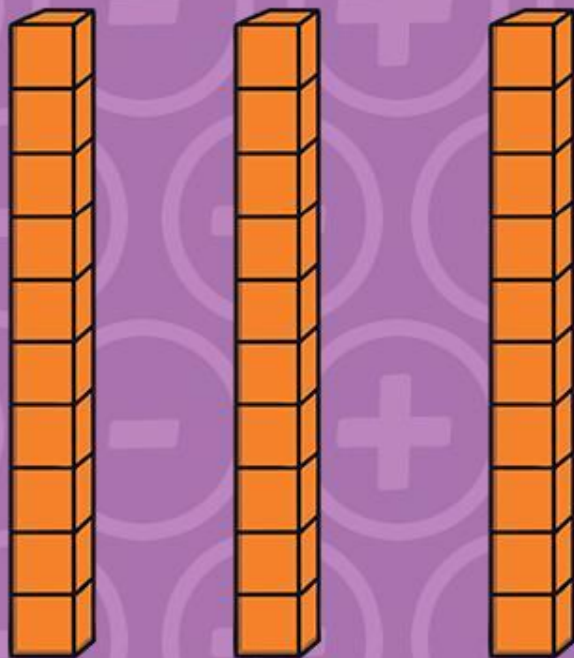
Maths

Addition and Subtraction

Need a coherently planned sequence of lessons to complement this resource?



Add and Subtract a 2-Digit Number and a Multiple of 10



Aim

- To add and subtract a multiple of 10 to and from any 2-digit number.

Success Criteria

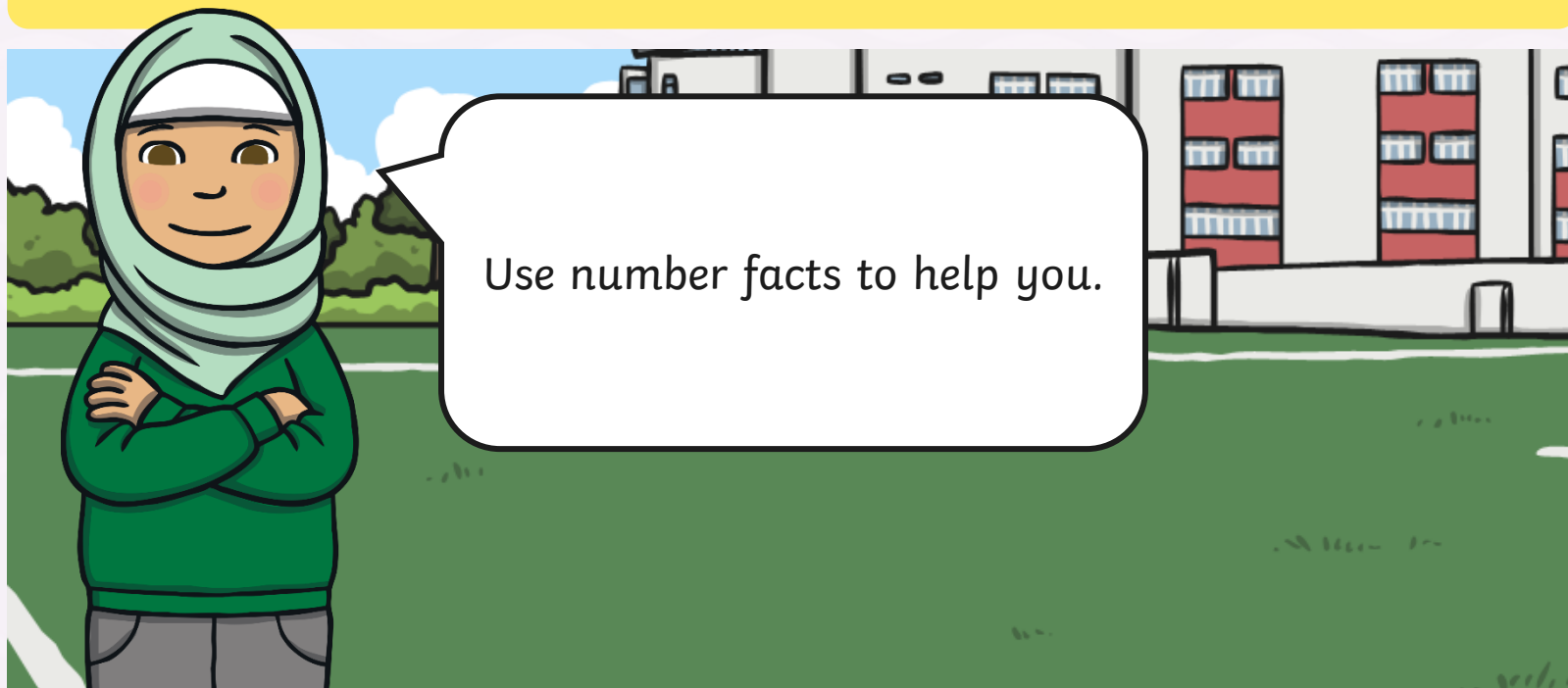
- I can use number facts to add a multiple of ten to any 2-digit number.
- I can use number facts to subtract a multiple of ten from any 2-digit number.
- I can use patterns to add a multiple of ten to any 2-digit number.
- I can use patterns to subtract a multiple of ten from any 2-digit number.

Remember It



Spin the spinners to show multiples of ten.

The symbol will show you whether to add or subtract the numbers.

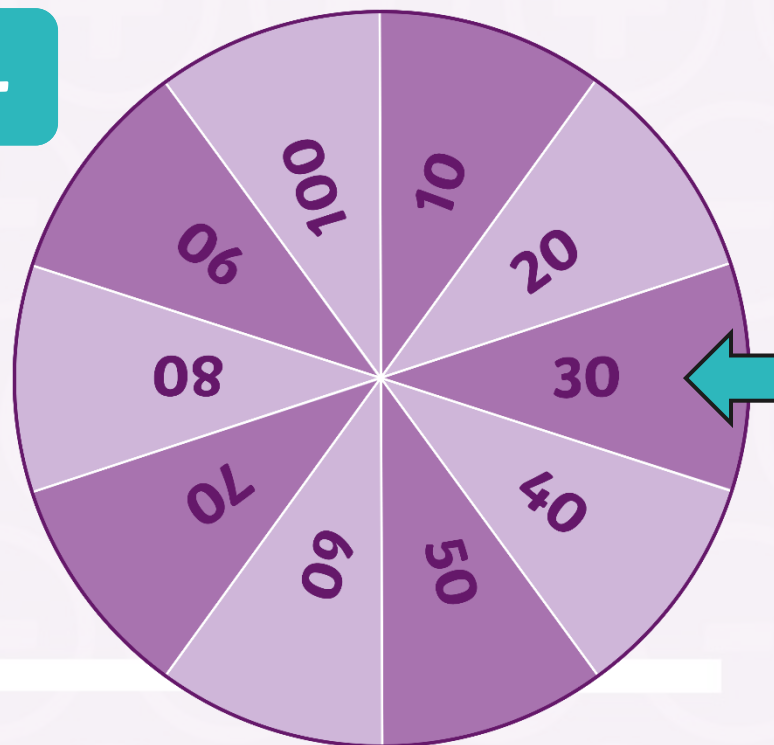
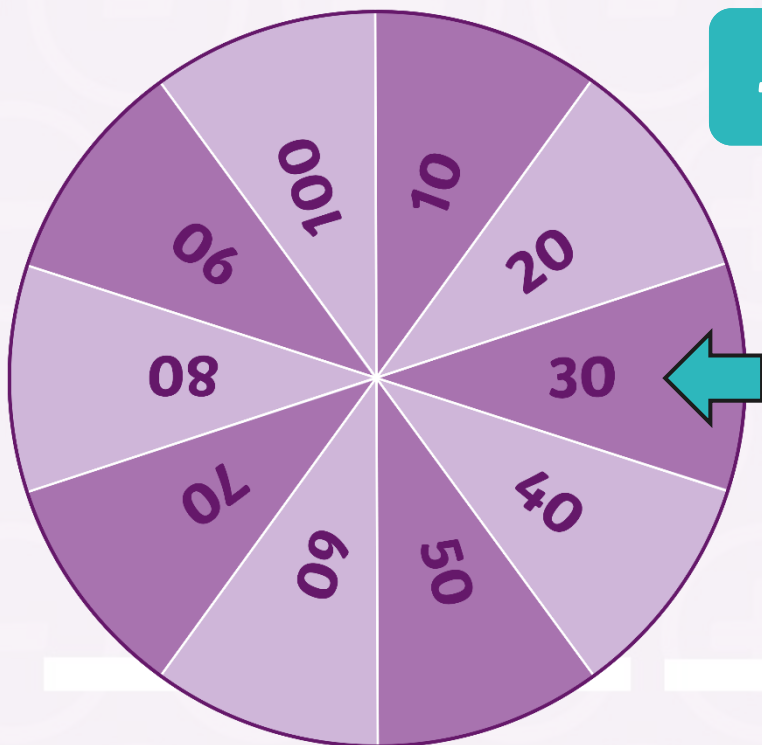


Use number facts to help you.

Remember It



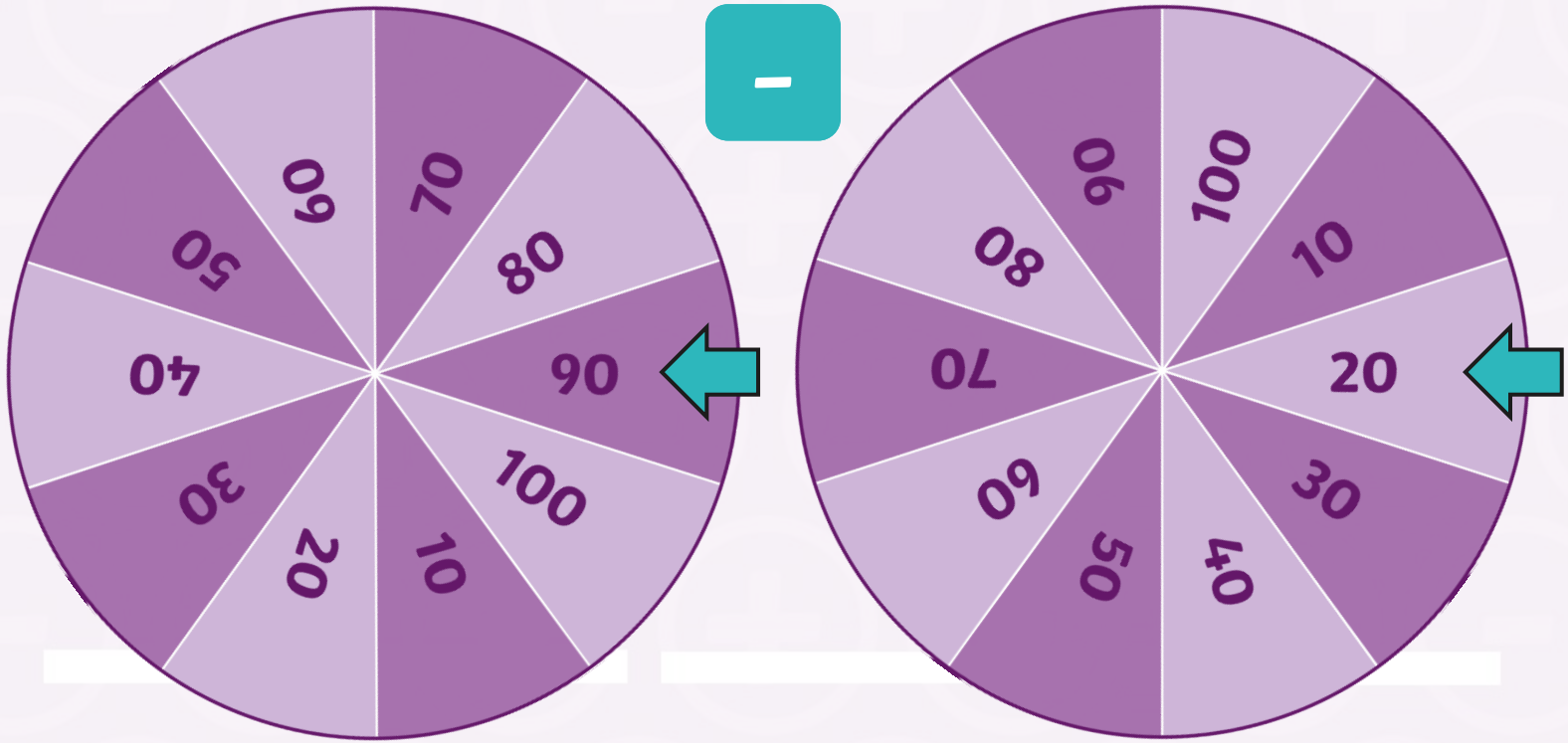
$$10 + 10 = 20$$



Remember It



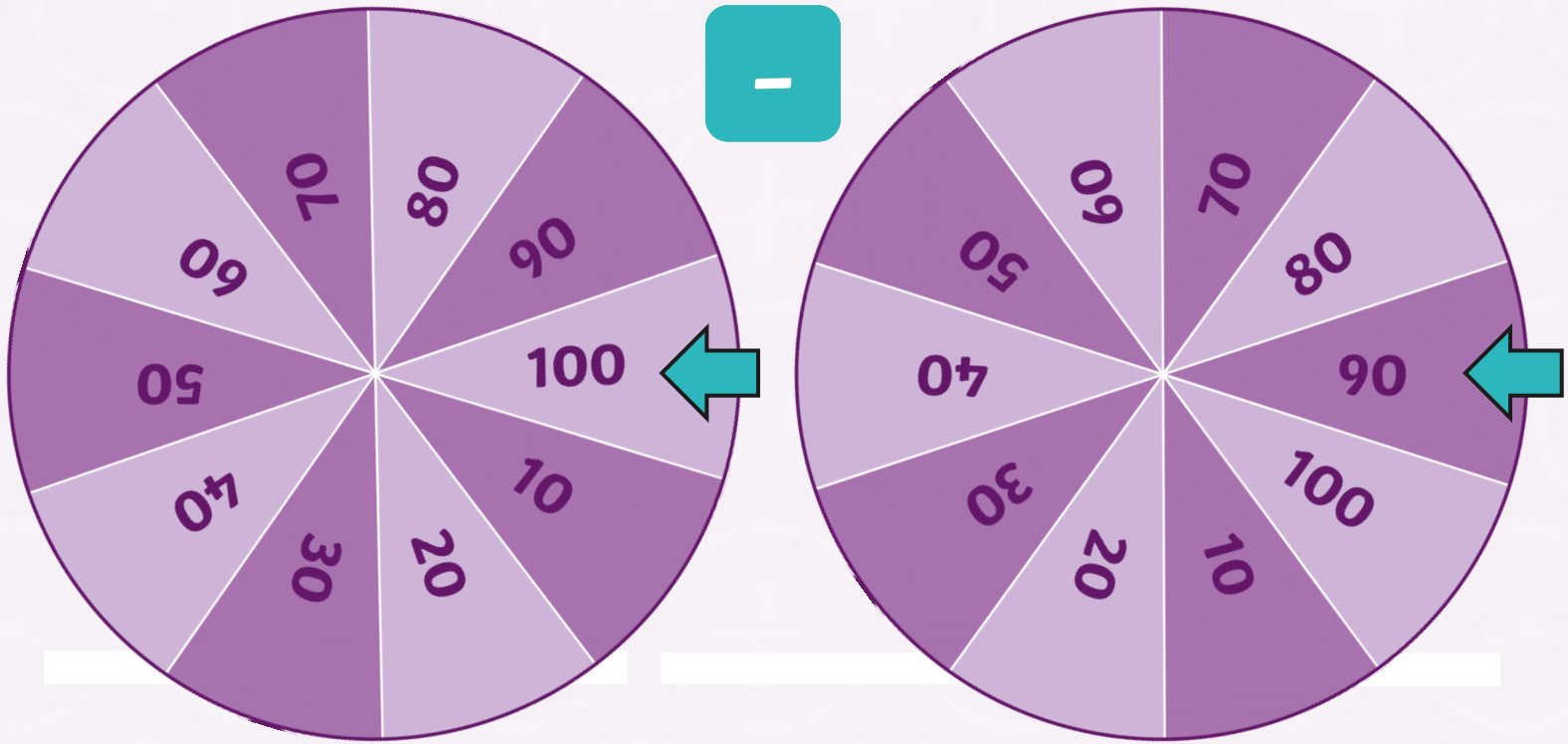
$$20 - 10 = 10$$



Remember It



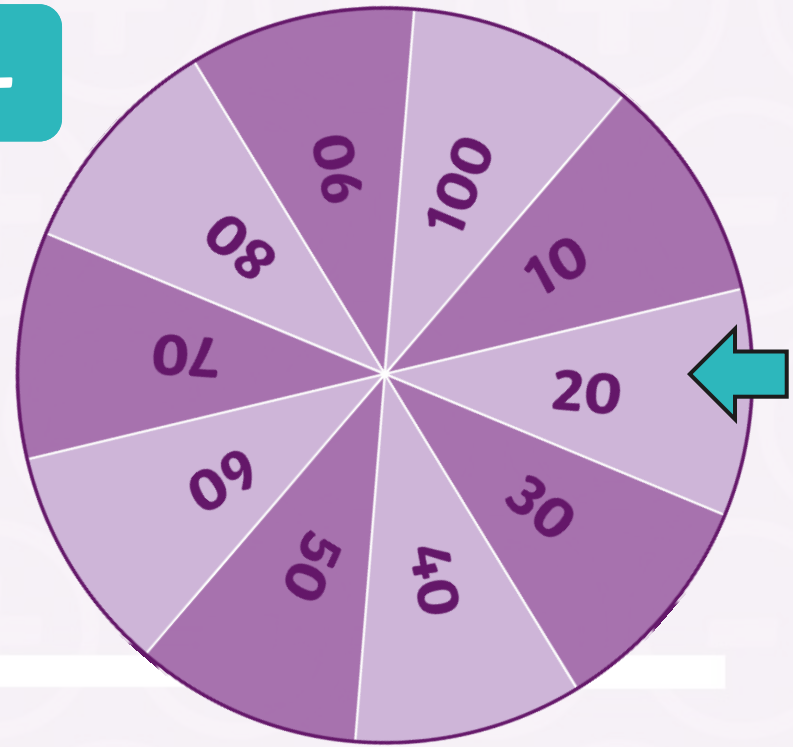
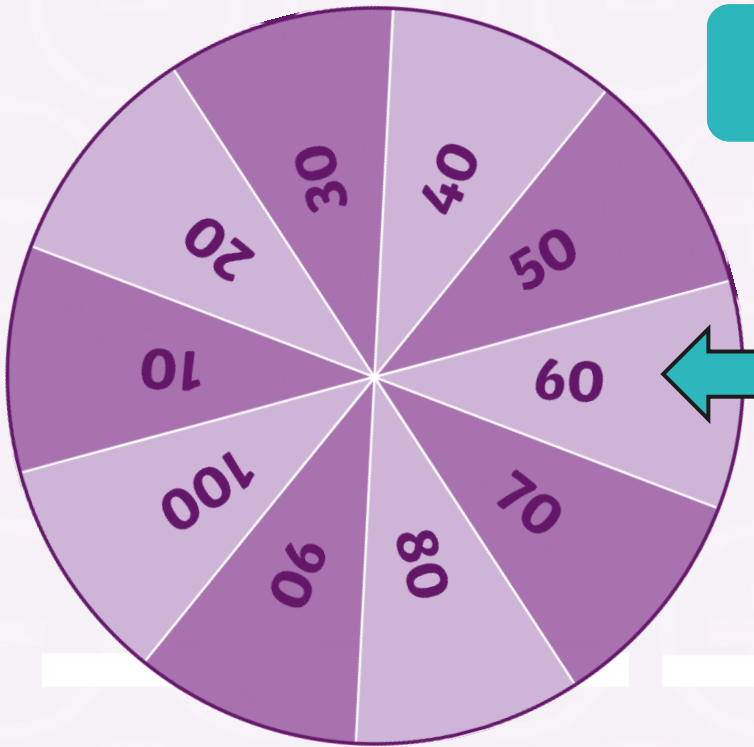
$$20 + 10 = 30$$



Remember It



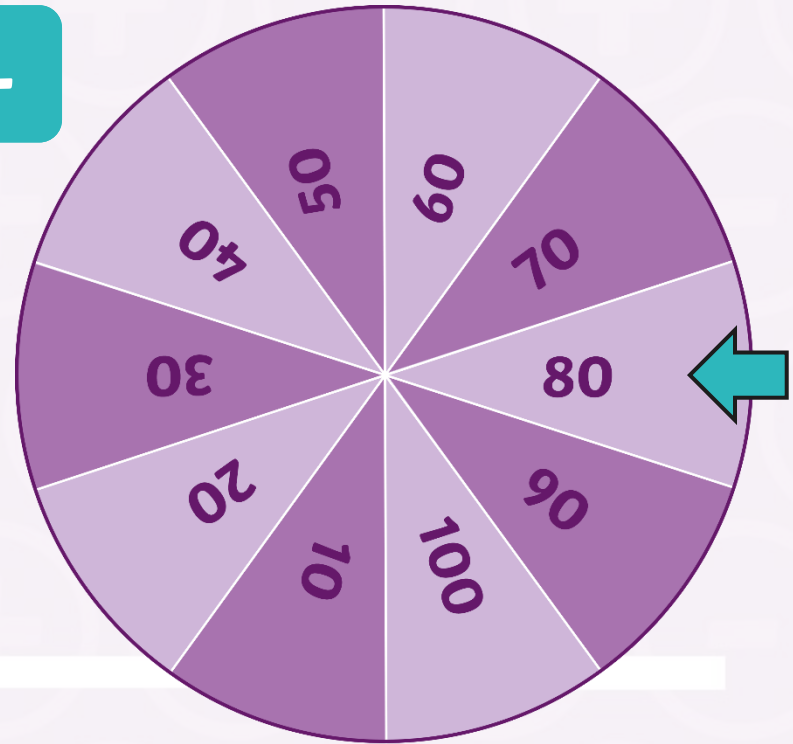
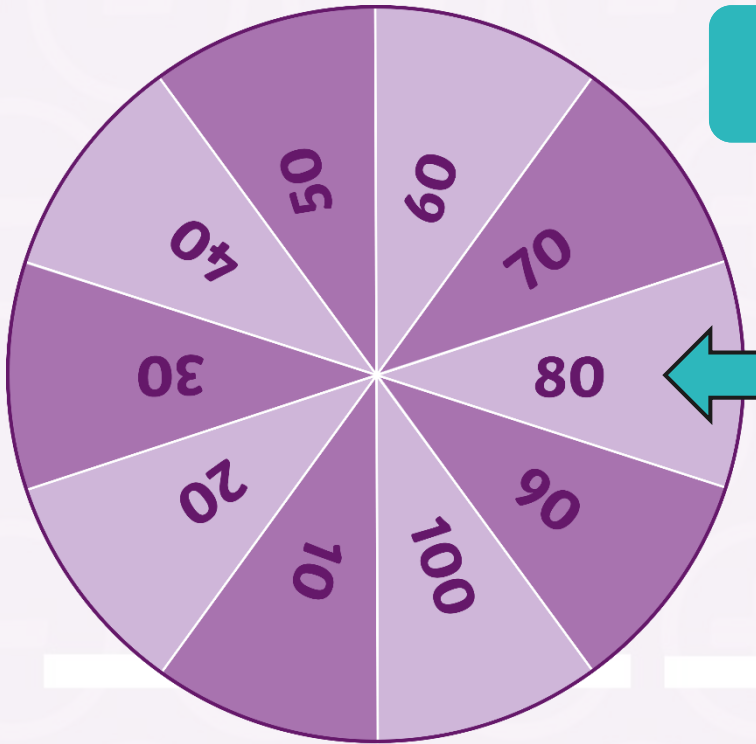
$$30 - 10 = 20$$



Remember It



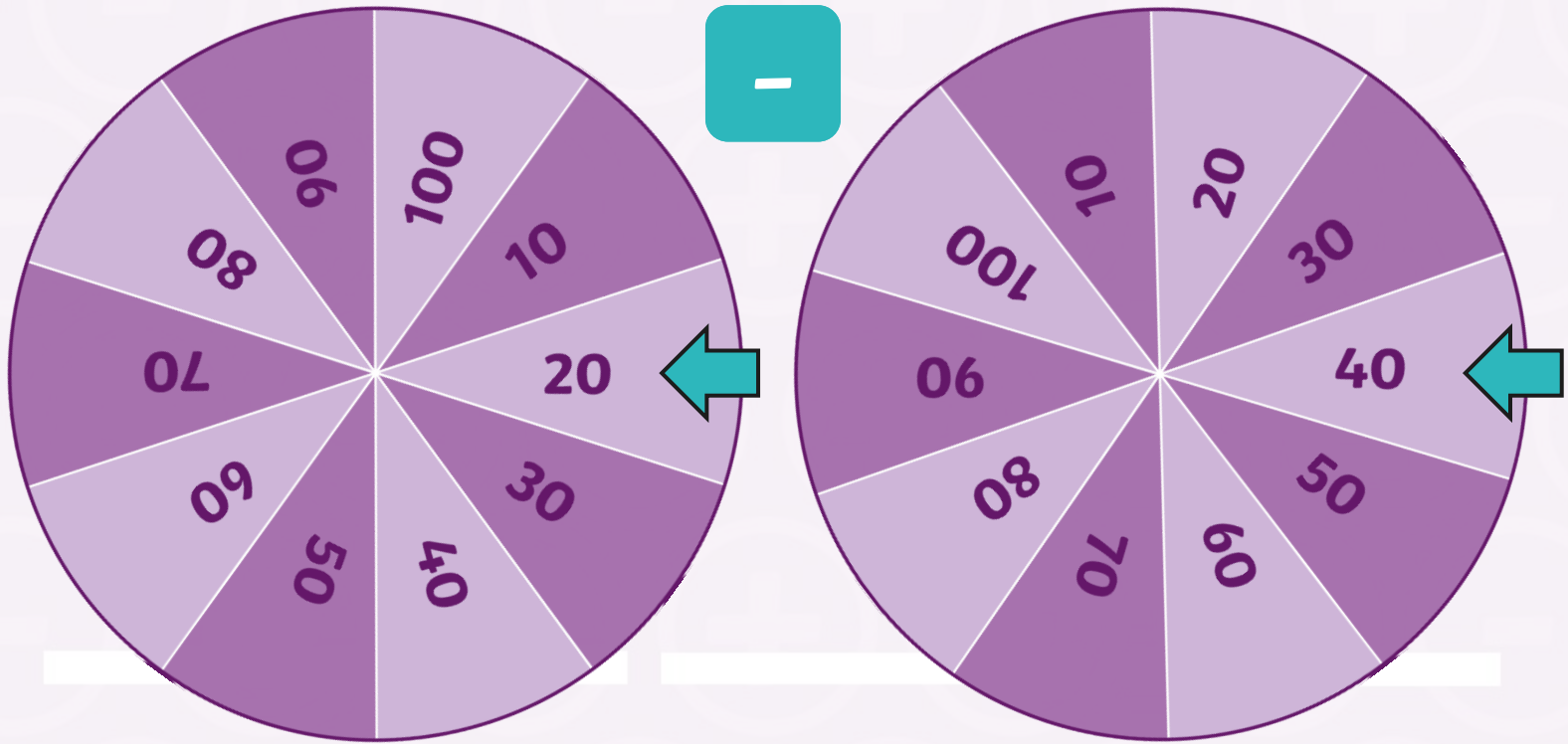
$$30 + 10 = 40$$



Remember It



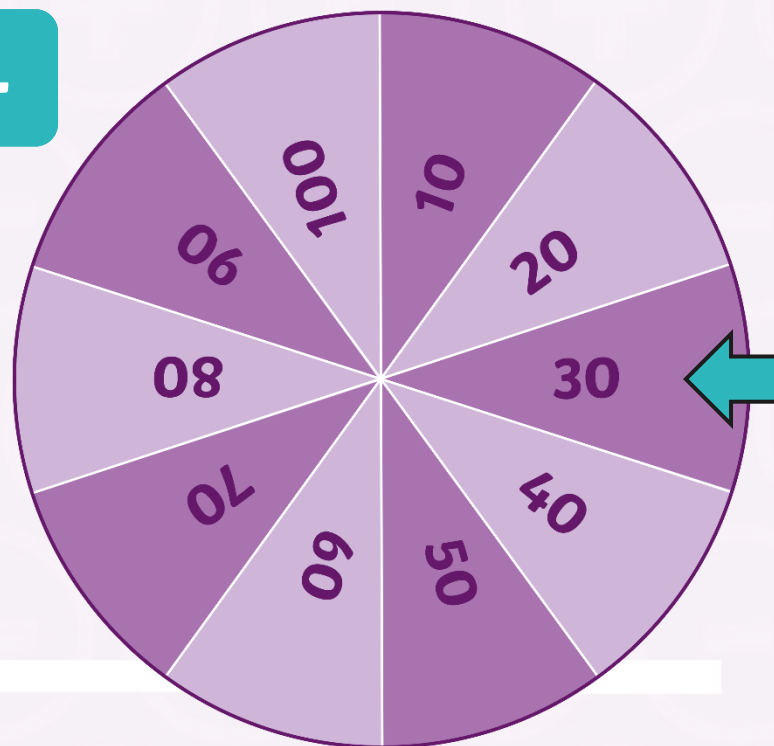
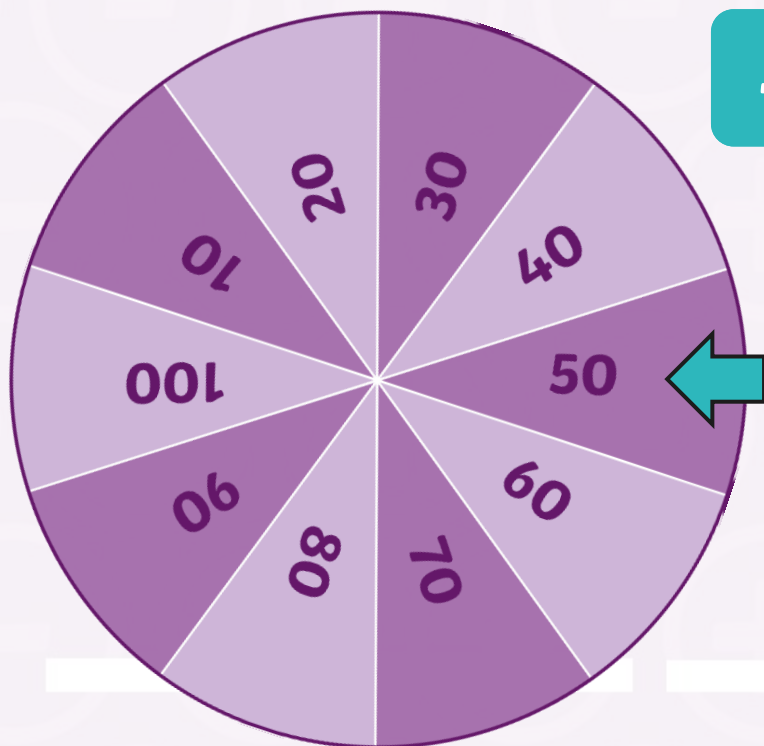
$$40 - 10 = 30$$



Remember It



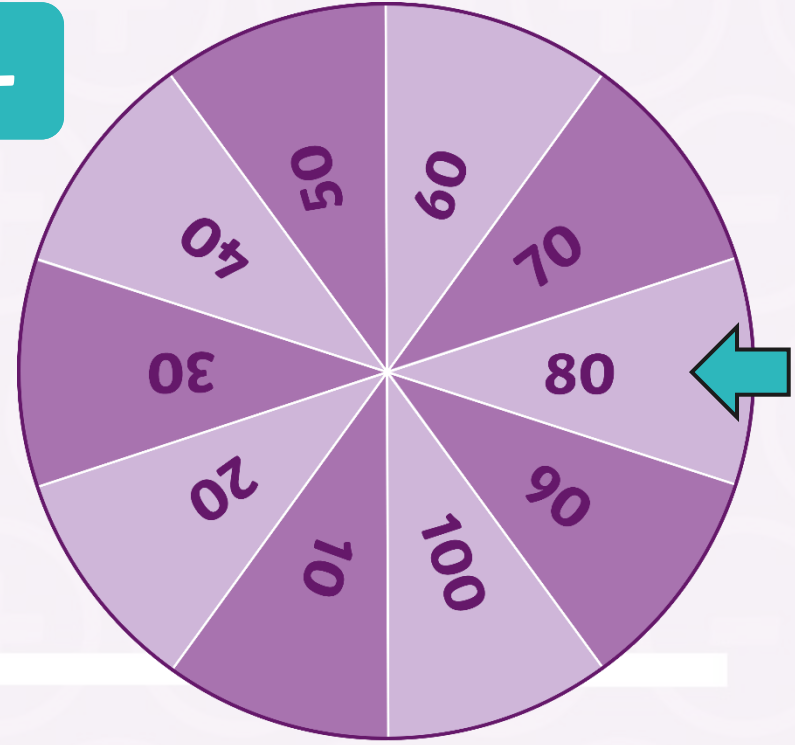
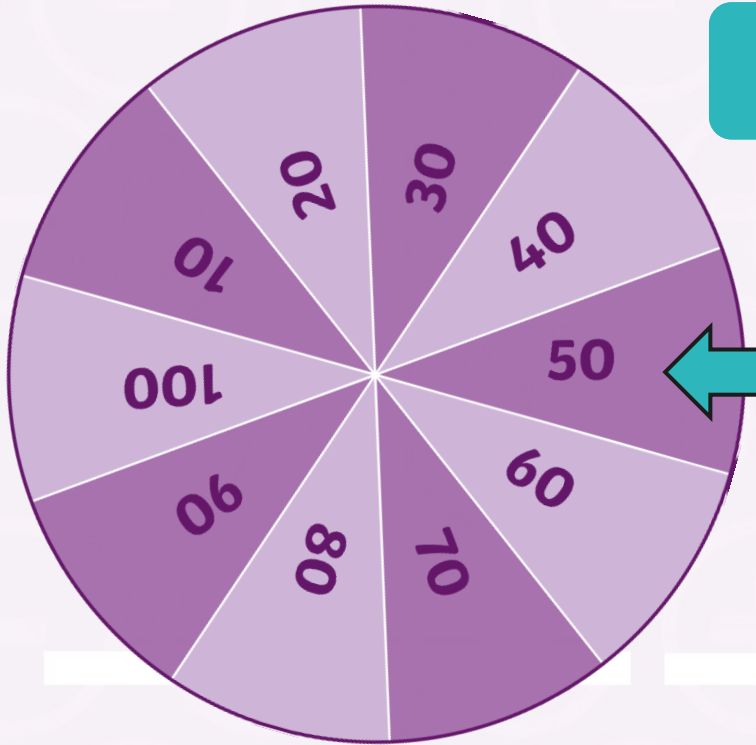
$$40 + 10 = 50$$



Remember It



$$50 - 10 = 40$$



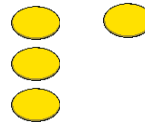
Addition Pattern Builders



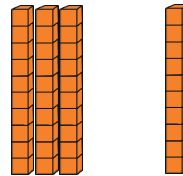
What is the same about these calculations?
What is different?



$$3 + 1 = 4$$



$$30 + 10 = 40$$



3 tens plus 1 ten equals 4 tens.

We can use number facts to help us add tens.

Addition Pattern Builders



Can you continue
the pattern?



$$10 + 10 = 20$$

$$20 + 10 = 30$$

$$30 + 10 = 40$$

$$40 + 10 = 50$$

$$50 + 10 = 60$$

$$60 + 10 = 70$$

$$70 + 10 = 80$$

$$80 + 10 = 90$$

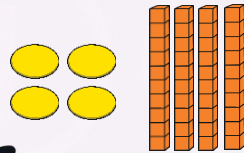
Addition Pattern Builders



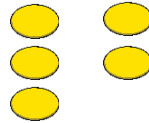
Use number facts and patterns to add tens.

Use equipment, jottings or calculations to help.

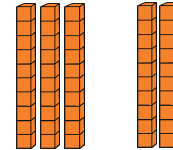
If I know $2 + 2 = 4$, then
I know $20 + 20 = 40$.



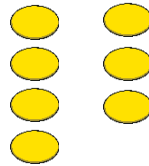
$$3 + 2 = 5$$



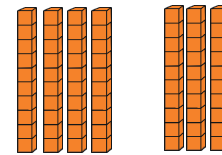
$$30 + 20 = 50$$



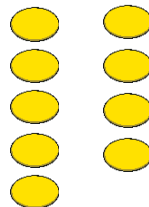
$$4 + 3 = 7$$



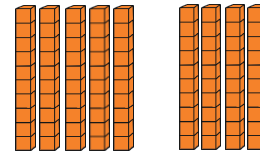
$$40 + 30 = 70$$



$$5 + 4 = 9$$



$$50 + 40 = 90$$



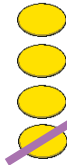
Subtraction Pattern Builders



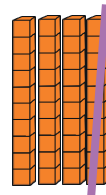
Did you spot a pattern to help you?



$$4 - 1 = 3$$



$$40 - 10 = 30$$



4 tens subtract 1 ten equals 3 tens.

We can use number facts to help us subtract tens.

Subtraction Pattern Builders



Can you continue
the pattern?



$$90 - 10 = 80$$

$$80 - 10 = 70$$

$$70 - 10 = 60$$

$$60 - 10 = 50$$

$$50 - 10 = 40$$

$$40 - 10 = 30$$

$$30 - 10 = 20$$

$$20 - 10 = 10$$

$$10 - 10 = 0$$

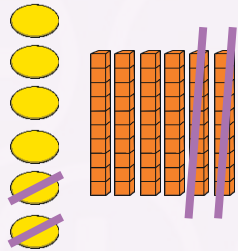
Subtraction Pattern Builders



Use number facts and patterns to subtract tens.

Use equipment, jottings or calculations to help.

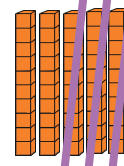
If I know $6 - 2 = 4$, then
I know $60 + 20 = 40$.



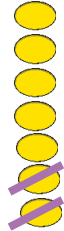
$$5 - 3 = 2$$



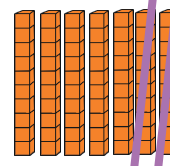
$$50 - 30 = 20$$



$$7 - 2 = 5$$



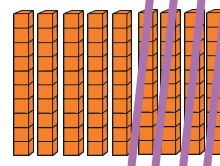
$$70 - 20 = 50$$



$$8 - 4 = 4$$



$$80 - 40 = 40$$



Counting in Tens



Count in 10s starting from the number 10.

10

20

30

40

50

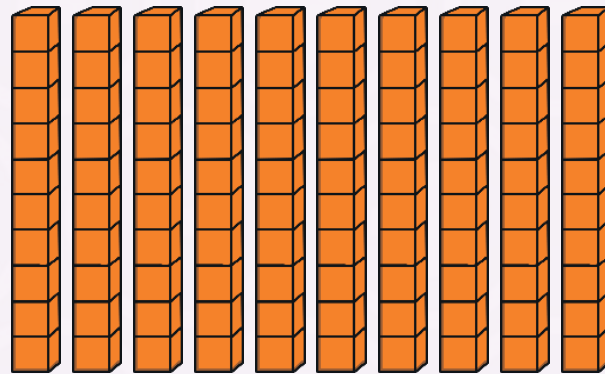
60

70

80

90

100



Describe what you notice.

What changes and what stays the same? Why does this happen?

Counting in Tens



Count in 10s starting from the number 4.

4

14

24

34

44

54

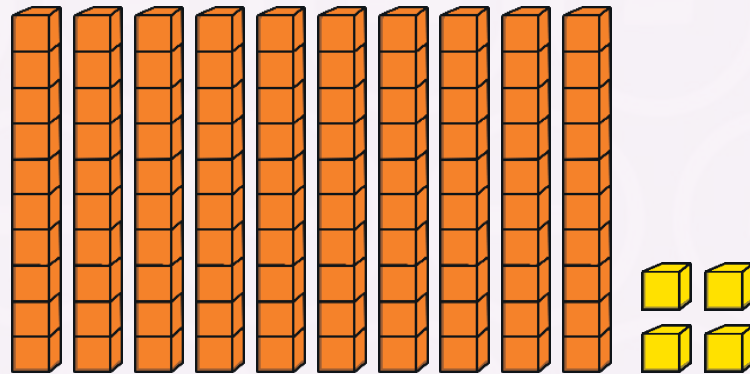
64

74

84

94

104



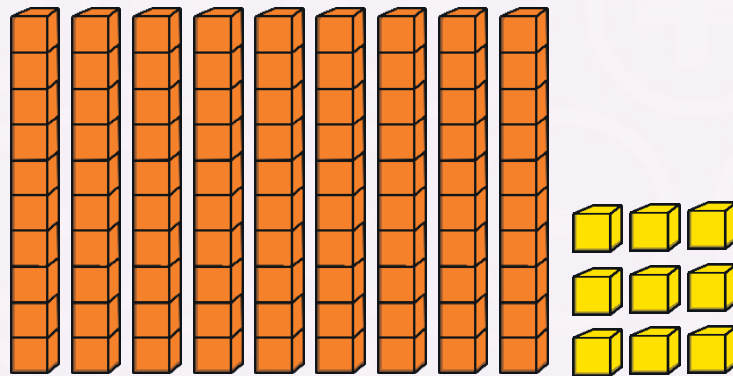
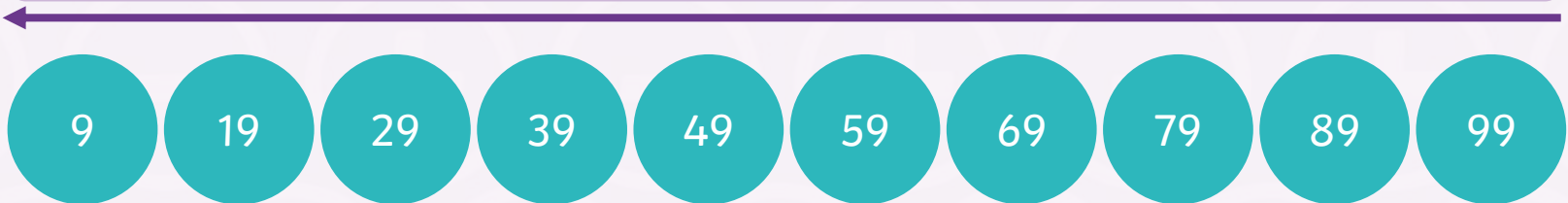
Describe what you notice.

What changes and what stays the same? Why does this happen?

Counting in Tens



Count back in steps of ten. Work your way back from right to left.



Describe what you notice.

What changes and what stays the same? Why does this happen?

Counting in Twenties



What do you think will happen if we count in 20s?
Will it be similar to counting in 10s?

Can you explain or show the pattern?

Counting in Twenties



Count forward in steps of 20 starting from the number 0.

0

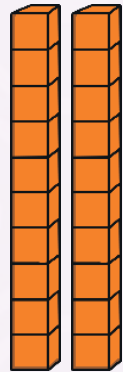
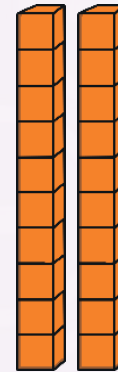
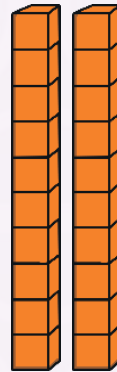
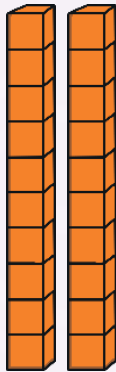
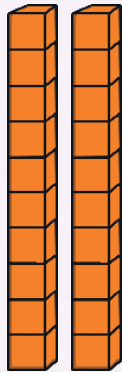
20

40

60

80

100



Describe what you notice.

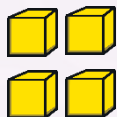
What changes and what stays the same? Why does this happen?

Counting in Twenties

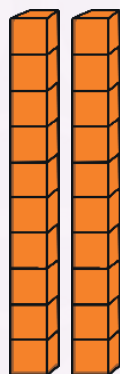


Count forward in steps of 20 starting from the number 4.

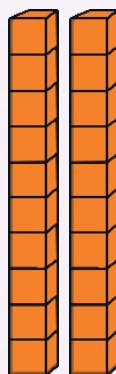
4



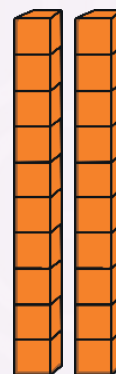
24



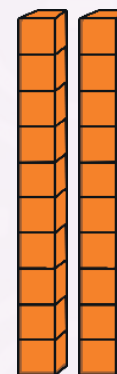
44



64



84



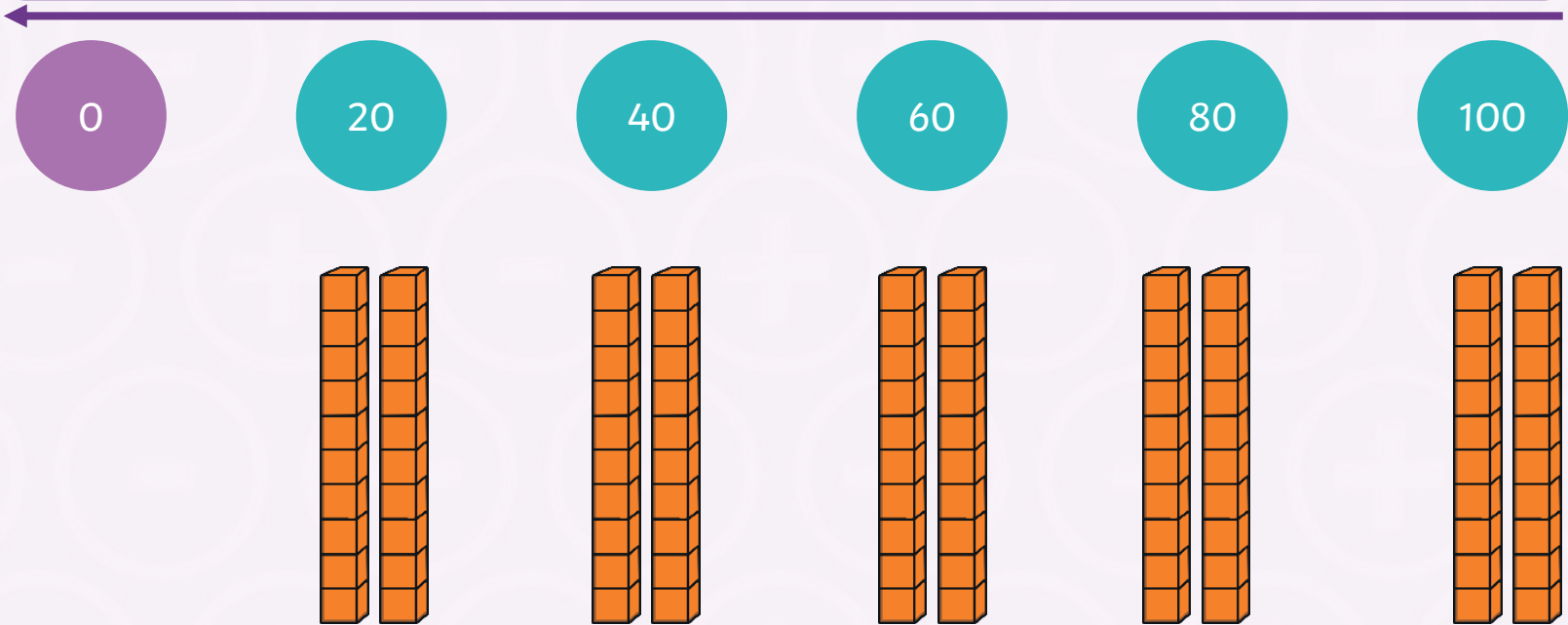
Describe what you notice.

What changes and what stays the same? Why does this happen?

Counting in Twenties



Count back in steps of 20 starting from the number 100.
Work your way back from right to left.



Describe what you notice.

What changes and what stays the same? Why does this happen?

Multiples Maze



Multiples of Ten Maze

I can add and subtract a multiple of 10 to and from any 2-digit number.



Each player starts on the centre number. When it is your turn, move your counter one space in any direction. Add or subtract the number on the tile. Keep track of your total by writing number sentences on your whiteboard. You may not go above 100 or below 0. The first person to land exactly on 0 or 100 is the winner.

★ 100	+ 10	- 10	+ 20	- 10	- 20	- 10	★ 0
+ 10	- 20	+ 20	- 20	+ 20	- 20	+ 20	- 10
+ 20	+ 10	+ 10	- 10	+ 10	- 20	+ 20	- 10
+ 20	- 20	- 10	60		+ 10	+ 20	+ 10
- 20	+ 20	+ 10			- 10	- 20	+ 20
- 10	- 20	- 10	- 10	- 10	+ 10	+ 20	- 10
- 10	- 10	- 20	- 10	- 20	+ 20	- 20	+ 20
★ 0	- 10	- 10	+ 10	+ 20	+ 10	+ 10	★ 100

Multiples of Ten Maze

I can add and subtract a multiple of 10 to and from any 2-digit number.



Each player starts on the centre number. When it is your turn, move your counter one space in any direction. Add or subtract the number on the tile. Keep track of your total by writing number sentences on your whiteboard. You may not go above 100 or below 0 and you may not land on a square which has been coloured. If you get stuck, go back to the start. The first person to land exactly on 0 or 100 is the winner.

0	- 10	+ 30	- 30	- 20	- 10	★ 7
0	+ 20	- 20	+ 20	- 20	- 10	- 30
0	+ 10	- 10	+ 10	- 10	+ 10	- 20
0	- 10	57		+ 10	+ 20	- 30
0	+ 10	57		- 10	- 20	+ 40
0	- 20	+ 10	- 10	+ 10	+ 20	+ 10
0	- 20	+ 20	- 20	+ 30	- 20	+ 40
0	- 20	+ 10	+ 30	+ 10	+ 30	★ 97

Multiples of Ten Maze

I can add and subtract a multiple of 10 to and from any 2-digit number.



Each player starts on the centre number. When it is your turn, move your counter one space in any direction. Add or subtract the number on the tile. Keep track of your total by writing number sentences on your whiteboard. You may not go above 100 or below 0 and you may not land on a square which has been coloured. If you get stuck, go back to the start. The first person to land exactly on 0 or 100 is the winner.

0	+ 30	- 30	- 10	- 40	★ 6
20	- 30	+ 50	- 20	+ 20	- 40
60	- 40	+ 20	+ 40	- 10	- 20
20	46		+ 30	+ 30	- 30
50	46		- 10	- 20	+ 40
10	- 10	- 20	+ 30	+ 20	+ 60
30	+ 50	- 20	- 40	+ 30	+ 20
30	- 30	+ 20	+ 10	+ 60	★ 96

Diving into Mastery

Dive in by completing your own activity!



Add and Subtract 10s











Continue this sequence adding 10 each time.

22							
----	--	--	--	--	--	--	--

Continue this sequence by subtracting 10 each time.

75							
----	--	--	--	--	--	--	--

Draw the answer on the abacus.

	$+ 20 =$	
	$+ 50 =$	
	$- 30 =$	
	$- 40 =$	



30

the
are.

ng.
rove

10

20

30

40

50

60

70

80

90

100



te to
?

One Hundred Square



Choose

tract.

Can you

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

Aim



- To add and subtract a multiple of 10 to and from any 2-digit number.

Success Criteria

- I can use number facts to add a multiple of ten to any 2-digit number.
- I can use number facts to subtract a multiple of ten from any 2-digit number.
- I can use patterns to add a multiple of ten to any 2-digit number.
- I can use patterns to subtract a multiple of ten from any 2-digit number.

