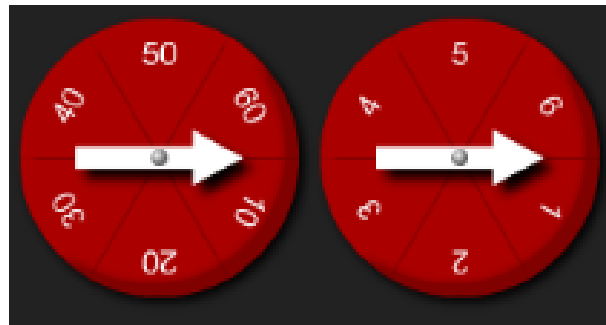## 2 Spinners

There are two spinners. The first spinner shows 10s and the second spinner shows 1s.

When you spin the two spinners, the numbers can be combined. For example, if the spinners land on 20 and 4, I can combine these numbers to make 24.

What two-digit numbers can you make?
What numbers can't you make?

If you cannot make a spinner, here is an interactive one. To change it from a dice to a spinner, click the purple icon at the top and choose the option of 2 spinners. https://nrich.maths.org/6717.

How to get started:

Begin by spinning the spinners and making some two-digit numbers. You could mark off the numbers you have made on a 100 square.
Notice the values on the spinners. Can you use this information to predict all of the numbers that are possible?

I have included a hundred square on the next page to help with the recording of your answers.

My recordings:

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

What numbers can you not make? Why can you not make them?

_____

_____

_____

_____

_____

Answers:

My recordings:

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

What numbers can you not make? Why can you not make them?

You cannot make numbers with more than 6 tens and 6 ones because the spinners only go up to 60 and 6. You cannot make a number under 11 because there is a 10's spinner.