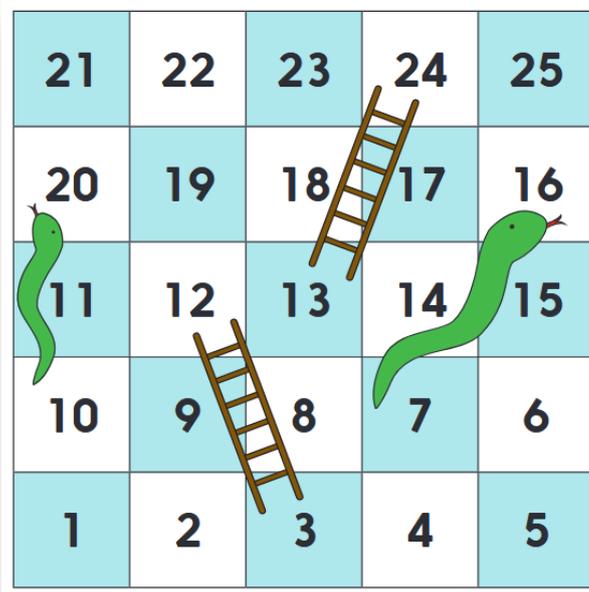


Something to make

Snakes and ladders

*Have fun making your own snakes and ladders board...
...and do some maths along the way!*

You will need: Game boards (*see resources*) and colouring pencils



Snakes and ladders differences

- Look at the snake between 20 and 10. The difference between 10 and 20 is 10.
- What numbers is the other snake between? What is the difference between those two numbers?
- Now look at the ladders. One ladder is between 3 and 12. What is the difference between 3 and 12?
- What numbers is the other ladder between? What is the difference between those two numbers?
- If you went down both snakes on this board, you would go down 9 and 10, that is 19. If you went up both ladders, you would go up 9 and 11, that is 20.

**It's a nicer game if you get to go
up more than you go down!**

And now the Challenge!

Design a Snakes and Ladders board following these rules:

Rules	Example
<ul style="list-style-type: none">○ The difference between the numbers at either end of every snake is the same. (It must be less than 15.)○ The difference between the numbers at either end of every ladder is the same. (It must be greater than 10.)○ The difference between the ladders must be greater than the difference between the snakes. <i>This means that you go up more than you go down.</i>	 <p data-bbox="965 757 1444 790">Cat decides that on her board...</p> <p data-bbox="965 862 1428 952">Snakes have a difference of 6 So 1st snake goes from 13 to 7</p> <p data-bbox="965 1019 1444 1108">Ladders have a difference of 8 So 1st ladder goes from 3 to 11.</p>

Choose which board you want to use. Which do you think will work best?

- It's up to you how many snakes and ladders you draw on it!
- Once you've designed your board, test it out!

See below for the boards

Resources

Board 1

36	35	34	33	32	31
25	26	27	28	29	30
24	23	22	21	20	19
13	14	15	16	17	18
12	11	10	9	8	7
1	2	3	4	5	6

Resources

Board 2

64	63	62	61	60	59	58	57
49	50	51	52	53	54	55	56
48	47	46	45	44	43	42	41
33	34	35	36	37	38	39	40
32	31	30	29	28	27	26	25
17	18	19	20	21	22	23	24
16	15	14	13	12	11	10	9
1	2	3	4	5	6	7	8

Resources

Board 3

100	99	98	97	96	95	94	93	92	91
81	82	83	84	85	86	87	88	89	90
80	79	78	77	76	75	74	73	72	71
61	62	63	64	65	66	67	68	69	70
60	59	58	57	56	55	54	53	52	51
41	42	43	44	45	46	47	48	49	50
40	39	38	37	36	35	34	33	32	31
21	22	23	24	25	26	27	28	29	30
20	19	18	17	16	15	14	13	12	11
1	2	3	4	5	6	7	8	9	10