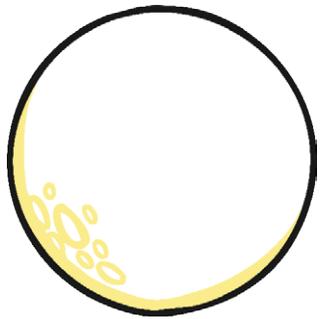


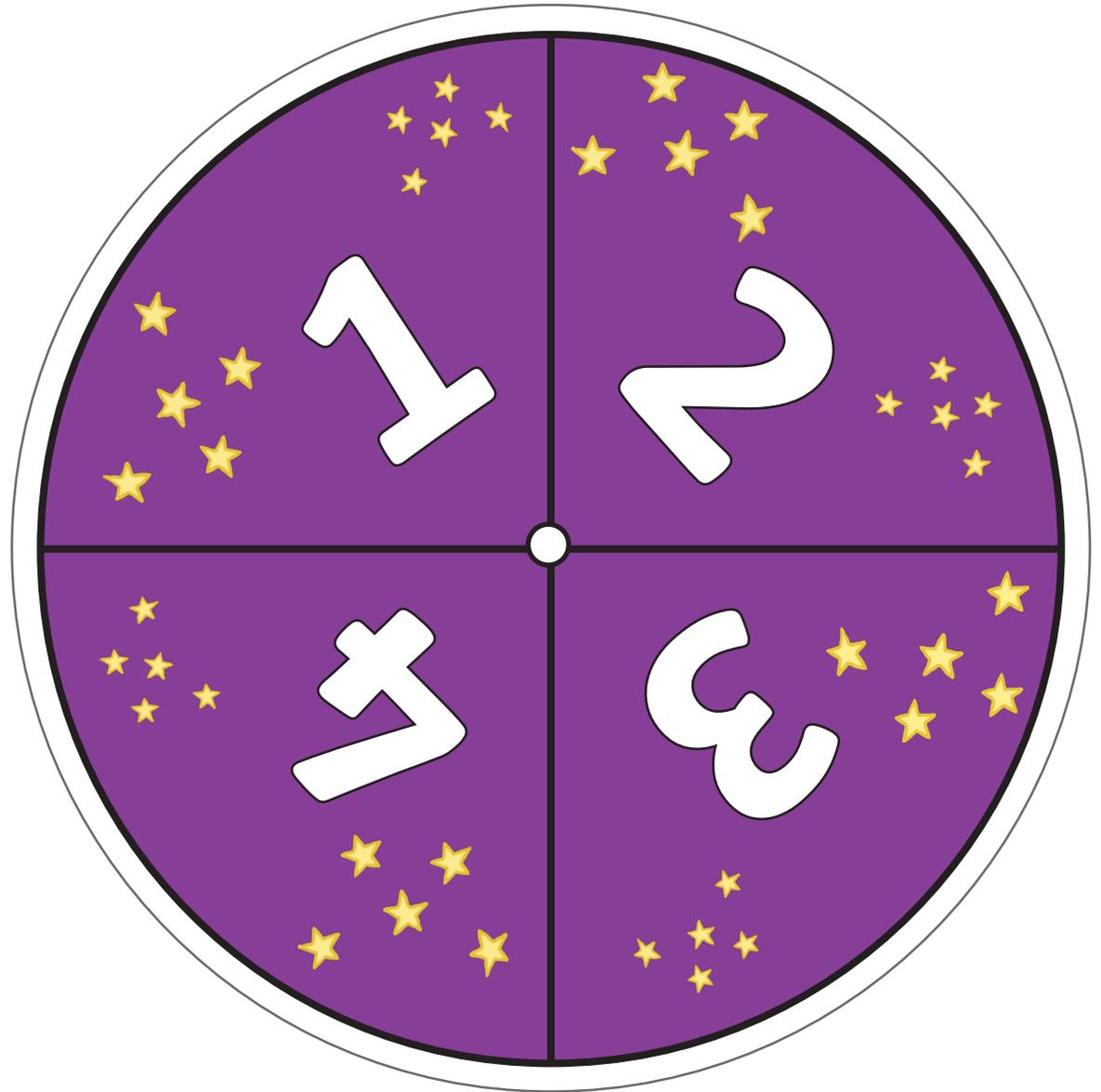
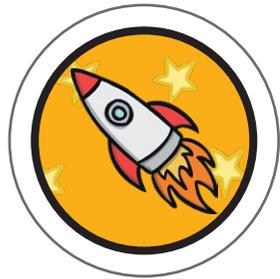
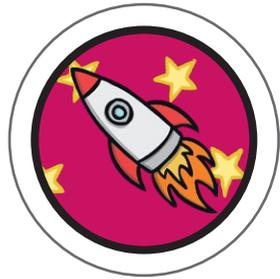
Adding and Subtracting 9 Space Race



- Spin the spinner and move your counter that number of places. Add 9 to the number you land on. Use equipment to explain your thinking to your partner.
- The first person to reach the moon is the winner!
- Repeat the game, this time subtracting 9 each time.

The board consists of a central white area with two purple circles containing $+9$ and -9 . The rocket's body is divided into sections with numbers: 32, 17, 44, 11, 60, 35, 13, 48, 29, 37, 19, 18, 50, 10, 34, 15, 21, 46, 53, 31, 38. A rocket icon is at the bottom left with the word "START" next to it.

Adding and Subtracting 9 Space Race



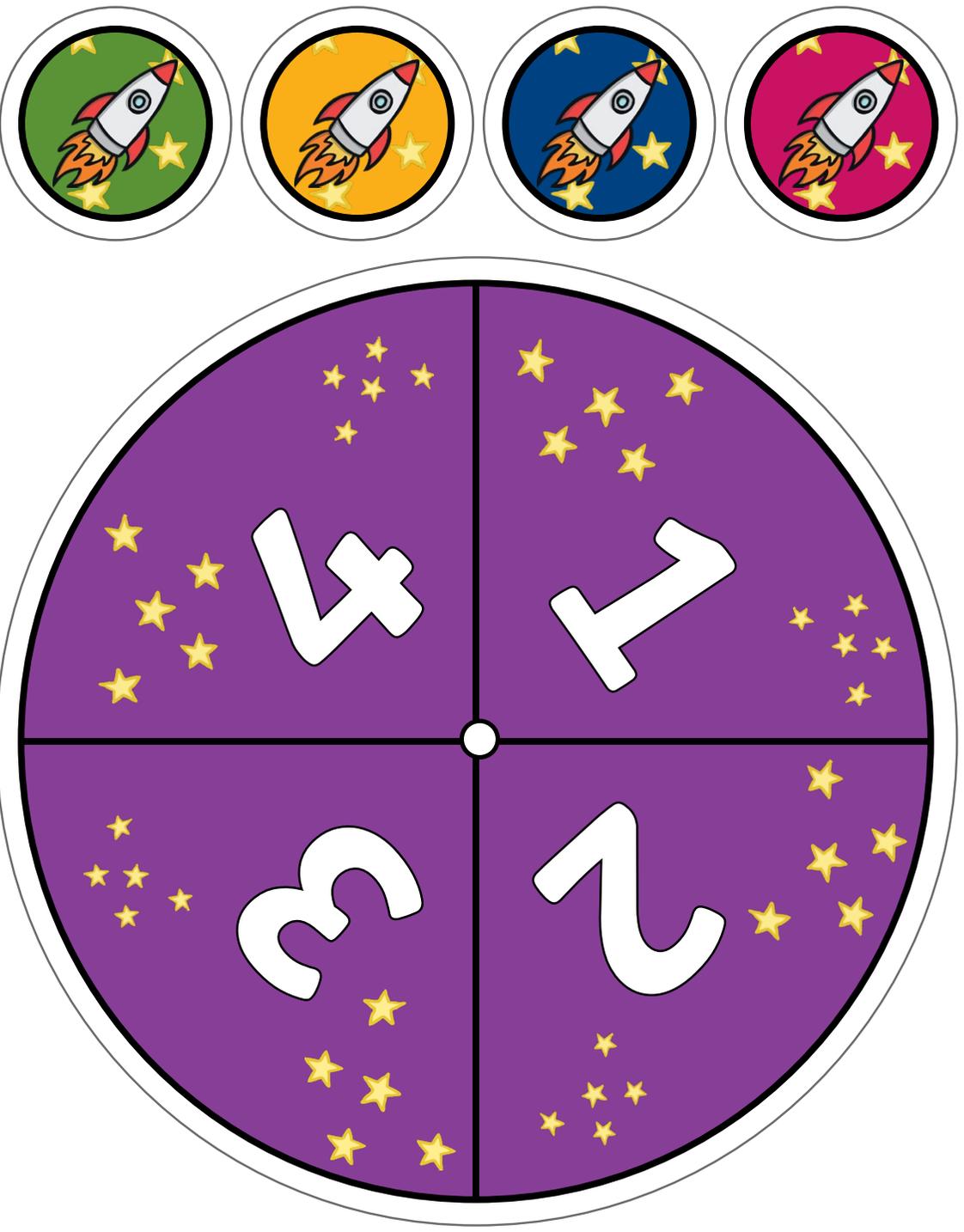
Adding and Subtracting 10 Space Race Answers

- 9	Number	+ 9
25	34	43
6	15	24
12	21	30
37	46	55
44	53	62
22	31	40
29	38	47
1	10	19
41	50	59
9	18	27
10	19	28
28	37	46
20	29	38
39	48	57
4	13	22
26	35	44
51	60	69
2	11	20
35	44	53
8	17	26
23	32	41

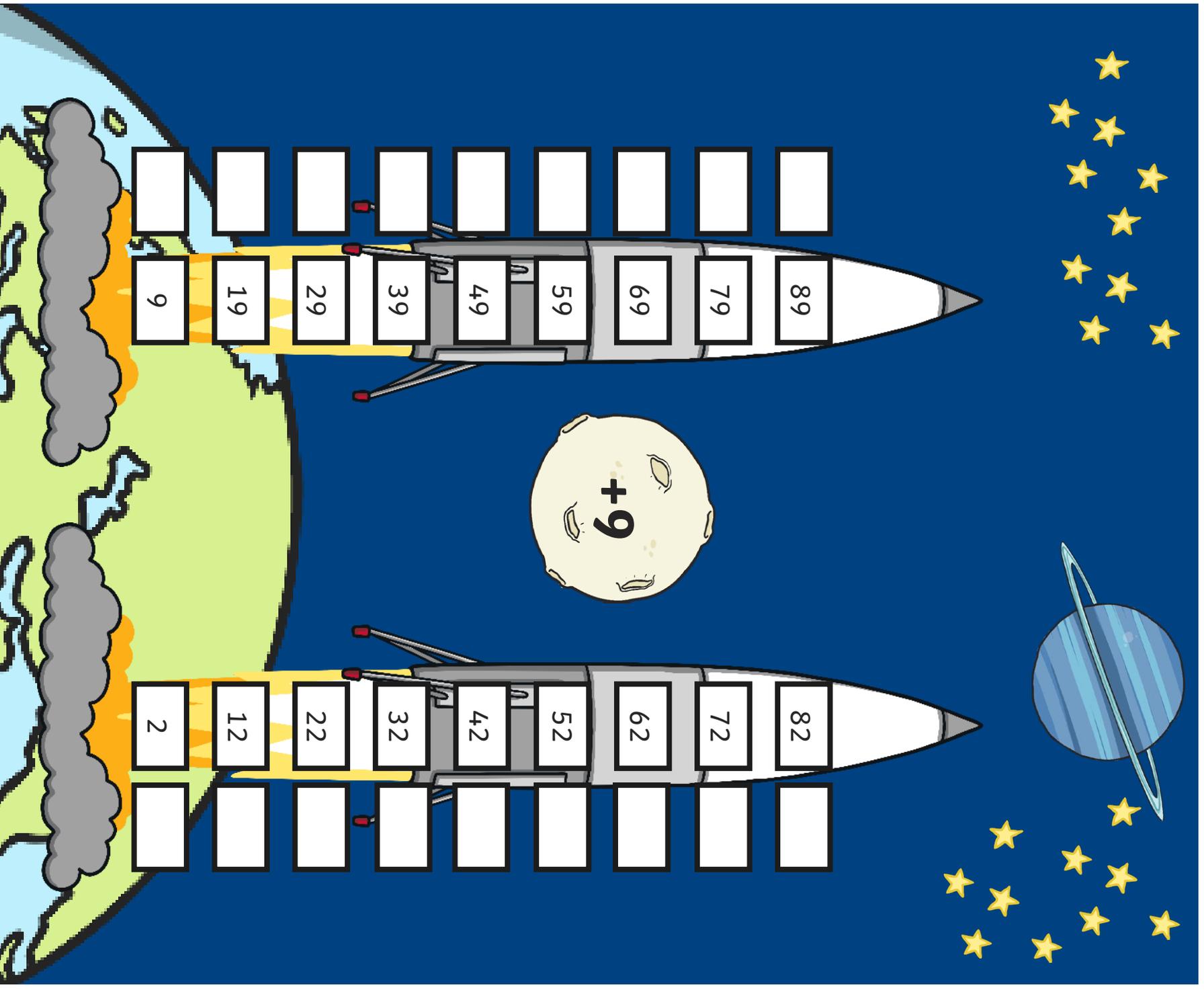
Race to Space

How to Play:

- Each player chooses a spaceship. Take it in turns to spin the spinner and move that number of places.
- Add 9 to the number you land on.
- The first person to reach space is the winner!
- Now, add 9 to the other numbers on your ship.
- Discuss what you notice with your partner.
- Use equipment to explain your thinking.



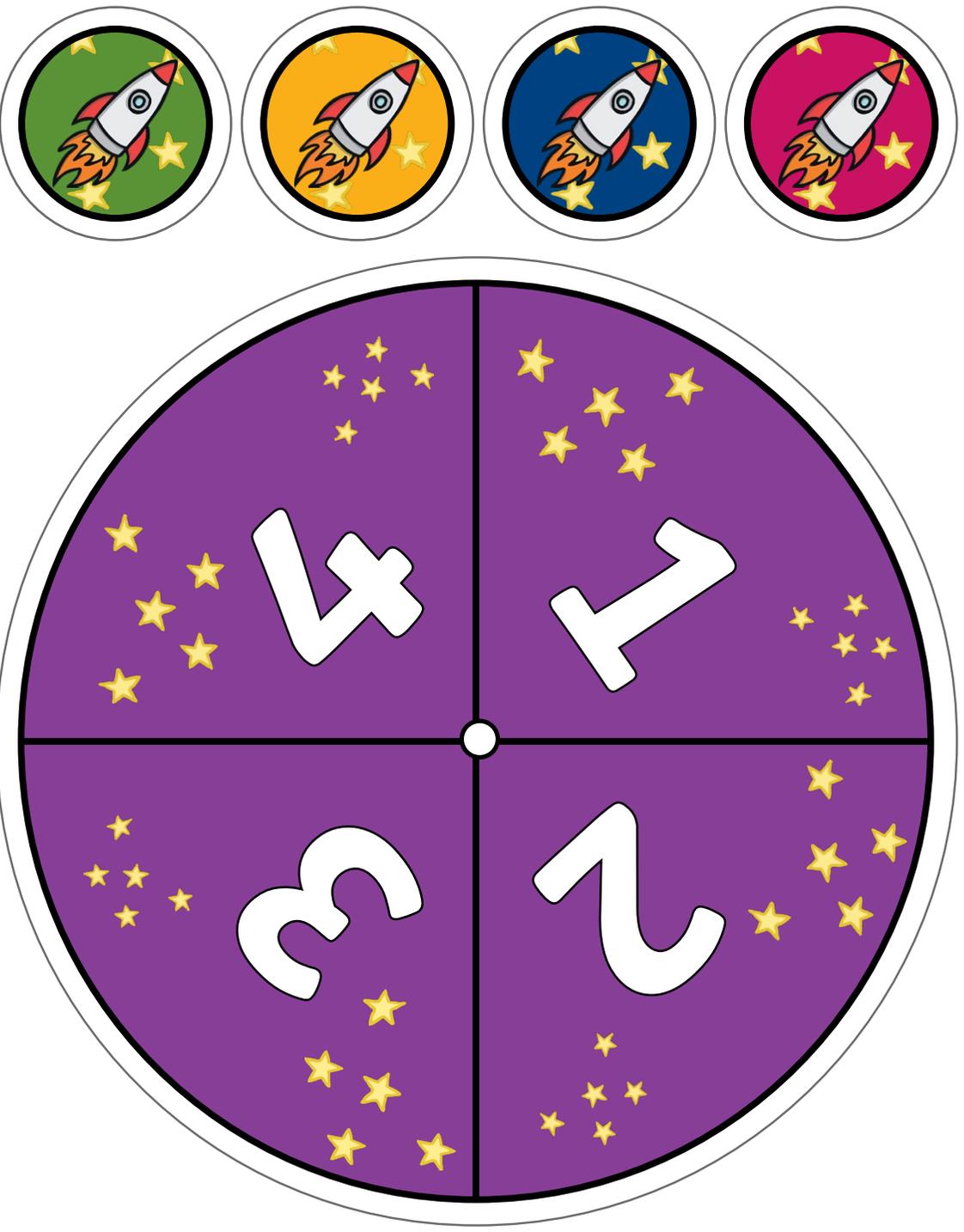
Race to Space



Race Home from Space

How to Play:

- Each player chooses a spaceship. Take it in turns to spin the spinner and move that number of places.
- Subtract 9 from the number you land on.
- The first person to reach Earth is the winner!
- Now, subtract 9 from the other numbers on your ship.
- Discuss what you notice with your partner.
- Use equipment to explain your thinking.



Race to Space Answers

Spaceship 1	+9
9	18
19	28
29	38
39	48
49	58
59	68
69	78
79	88
89	98

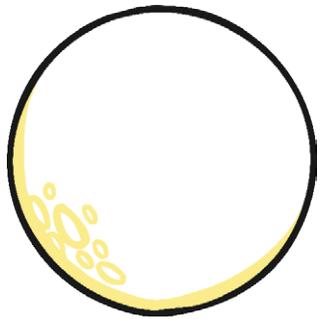
Spaceship 2	+9
2	11
12	21
22	31
32	41
42	51
52	61
62	71
72	81
82	91

Race Home from Space Answers

Spaceship 1	-9
93	84
83	74
73	64
63	54
53	44
43	34
33	24
23	14
13	4

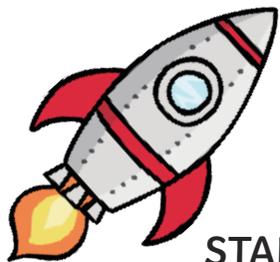
Spaceship 2	-9
97	88
87	78
77	68
67	58
57	48
47	38
37	28
27	18
17	8

Adding and Subtracting 9 Space Race



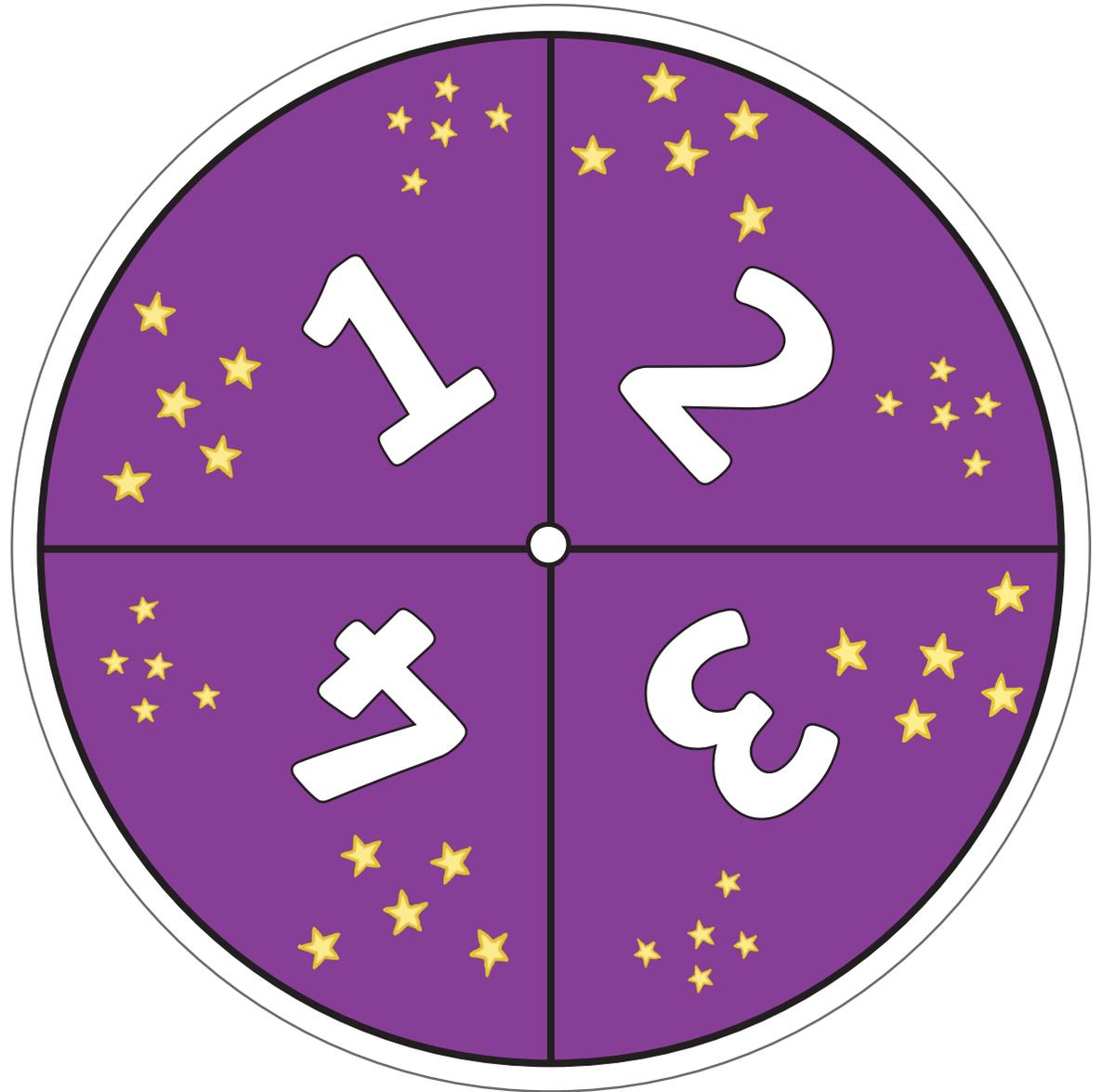
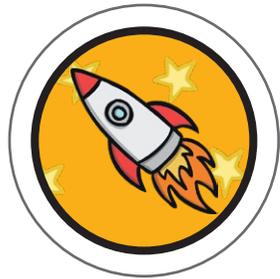
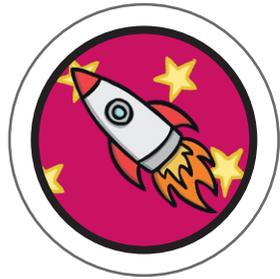
- Spin the spinner and move your spaceship that number of places. Add or subtract 9 from the number you land on. The first person to reach the moon is the winner.
- Choose a number from the board and explain what you notice. Can you continue the pattern?
- Can you explain the pattern to your friend?
- Can you make a rule about what happens when you add 9?
- Can you make a rule about what happens when you subtract 9?

The board consists of a winding path of colored segments. The numbers on the board are: 97, 22, 56, 35, 73, 61, 92, 95, 46, 81, 84, 60, 50, 10, 31, 34, 99, 53, 68. In the center of the board are two circular spinners labeled '+9' and '-9'.

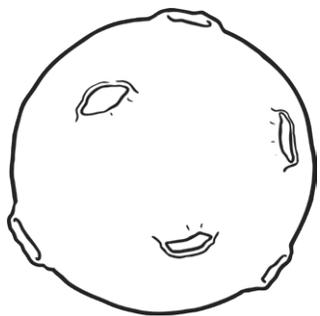


START

Adding and Subtracting 9 Space Race



Adding and Subtracting 9 Space Race Answers



- Spin the spinner and move your spaceship that number of places. Add or subtract 9 from the number you land on. The first person to reach the moon is the winner.
- Choose a number from the board and explain what you notice. Can you continue the pattern?
- Can you explain the pattern to your friend?
- Can you make a rule about what happens when you add 9?
- Can you make a rule about what happens when you subtract 9?

The board contains the following numbers:

- Top left: 97, 106
- Top right: 101, 46, 104
- Middle left: 22, 93, 56, 69, 35, 73, 64, 70, 61, 92, 37, 95
- Middle right: 72, 81, 41, 50
- Bottom left: 13, 84, 47, 60, 26
- Bottom right: 10, 19, 25, 15, 78, 90, 44, 31, 59, 34, 24, 87, 99, 53, 40, 68

Spinner: +9, -9

START