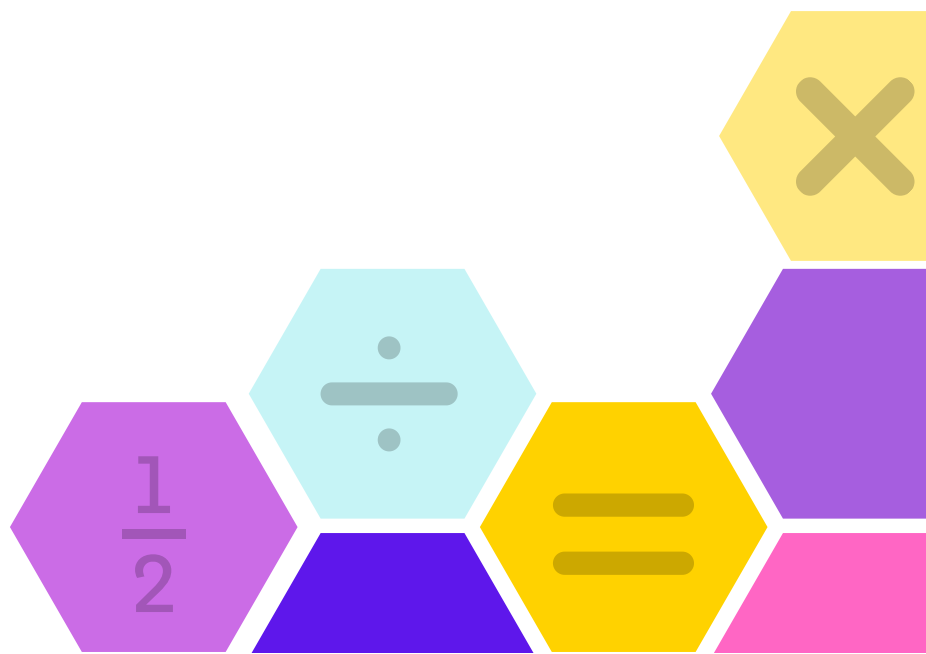


MRBEETEACH

RICH MATHS INVESTIGATIONS

Key Stage 1





25

44

78

85

Roll the dice to make a two-digit number, then write it in on one of the stairs.
The stairs should read in ascending order. If you can't use a number, write
down the number under the stairs, and skip your turn. The game is over if
someone fills in all the steps in their staircase.

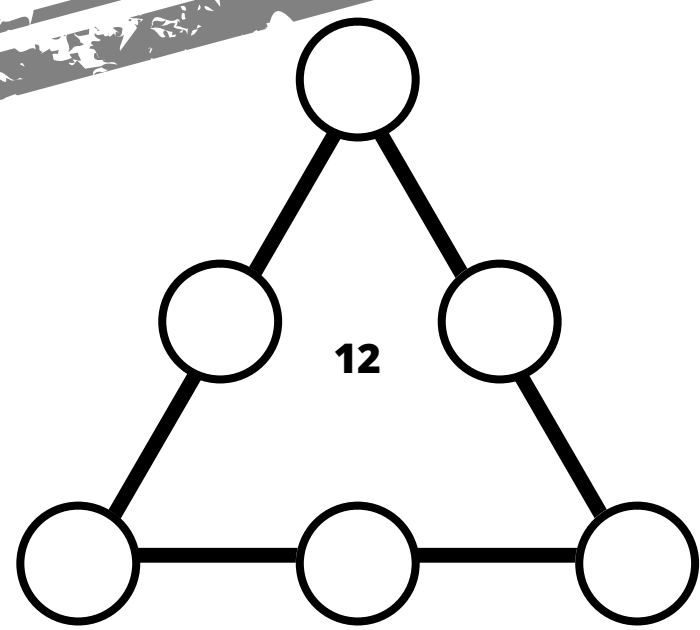
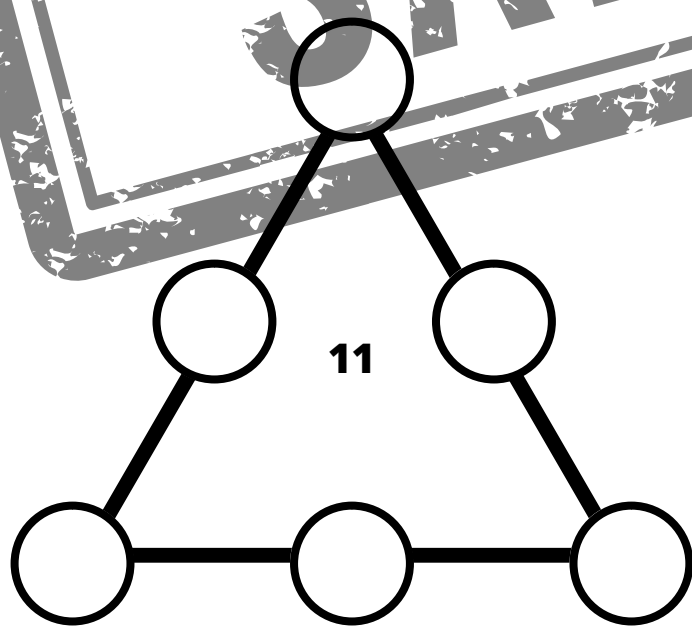
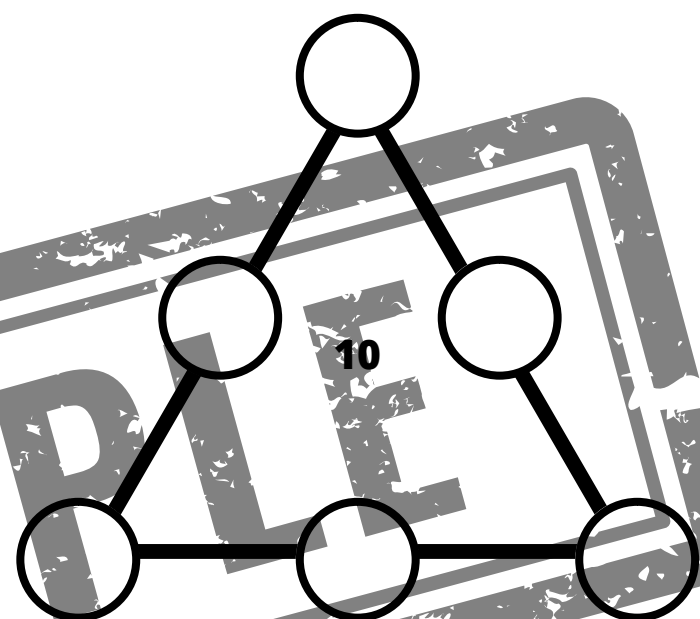
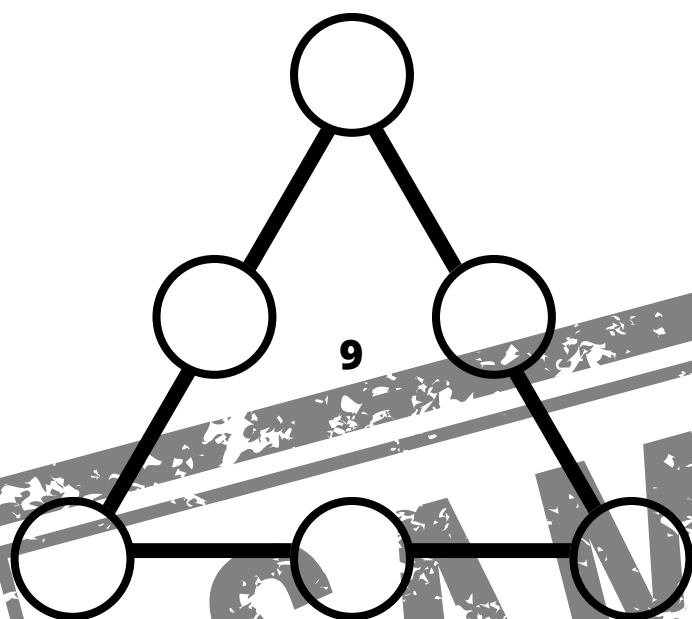




Triangles
3



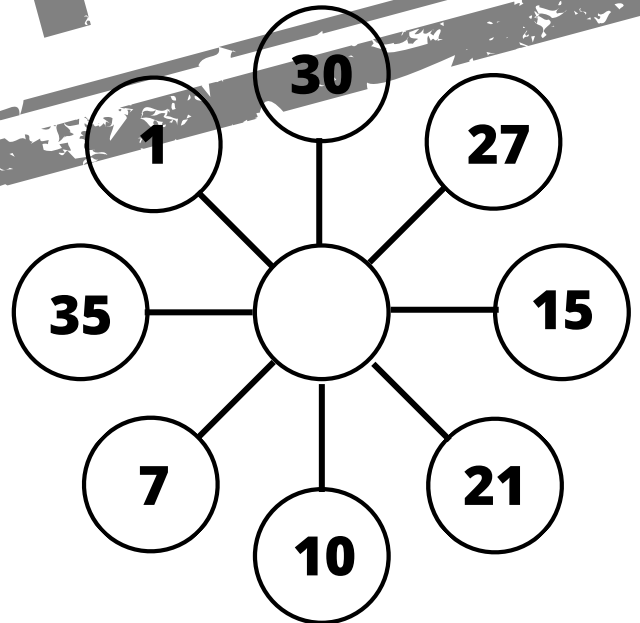
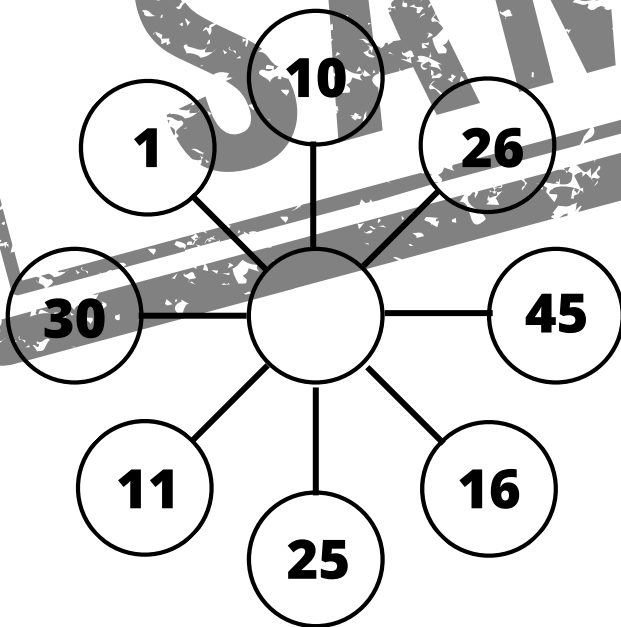
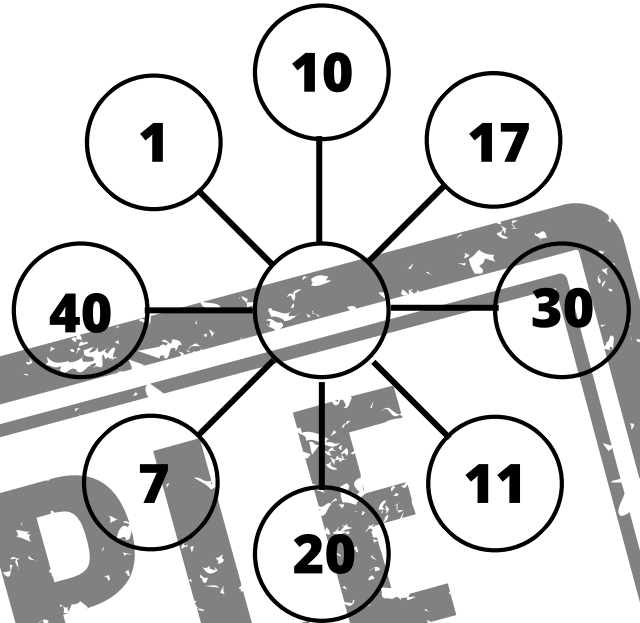
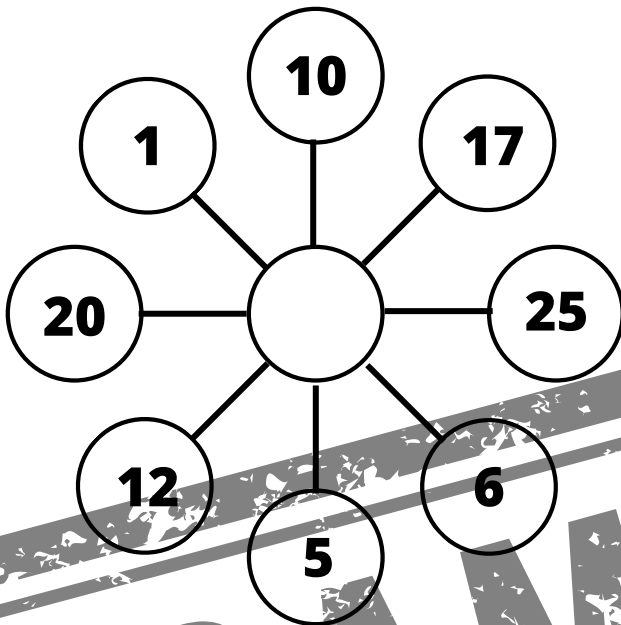
Use the digits 1 - 10.
Each side should sum to the number in the centre.

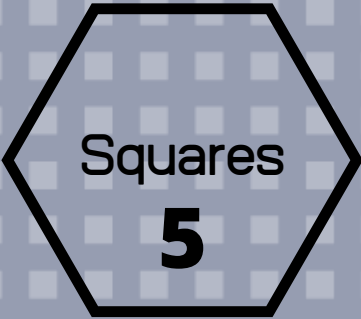


Stars
4



Which number comes in the middle of each star?





Squares

5

Say a number and ask your partner to place a counter where the number would be. Keep a score board: the person with the most correct wins the game.

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

SAMPLE

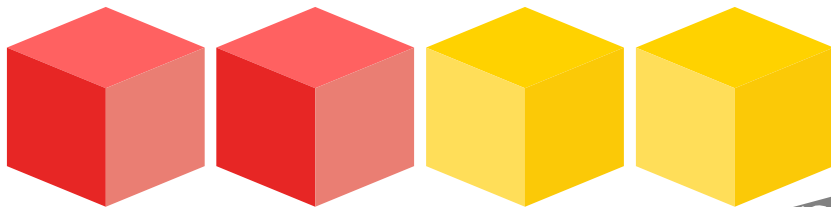


Colour code

8



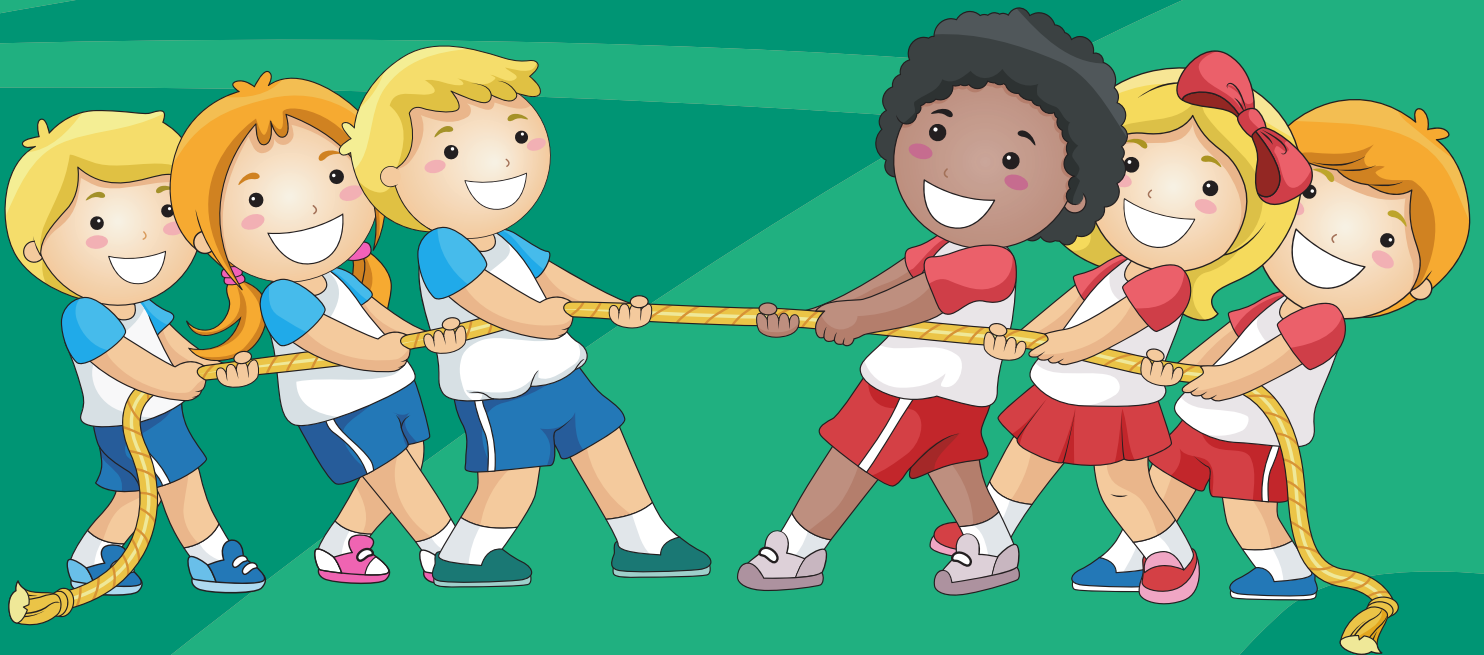
You have the following cubes: 2 red, 2 yellow, 2 green and 2 blue.
Can you fit them together to make a cube so that each colour shows on each
face just once?



SAMPLE

Tug of war
13

2 player game
2



Place counter on number 10. Roll a dice and move the counter. Play 1 pulls it to their direction and play 2 pulls it to their direction. The winner is the person who gets to the end.

WIN

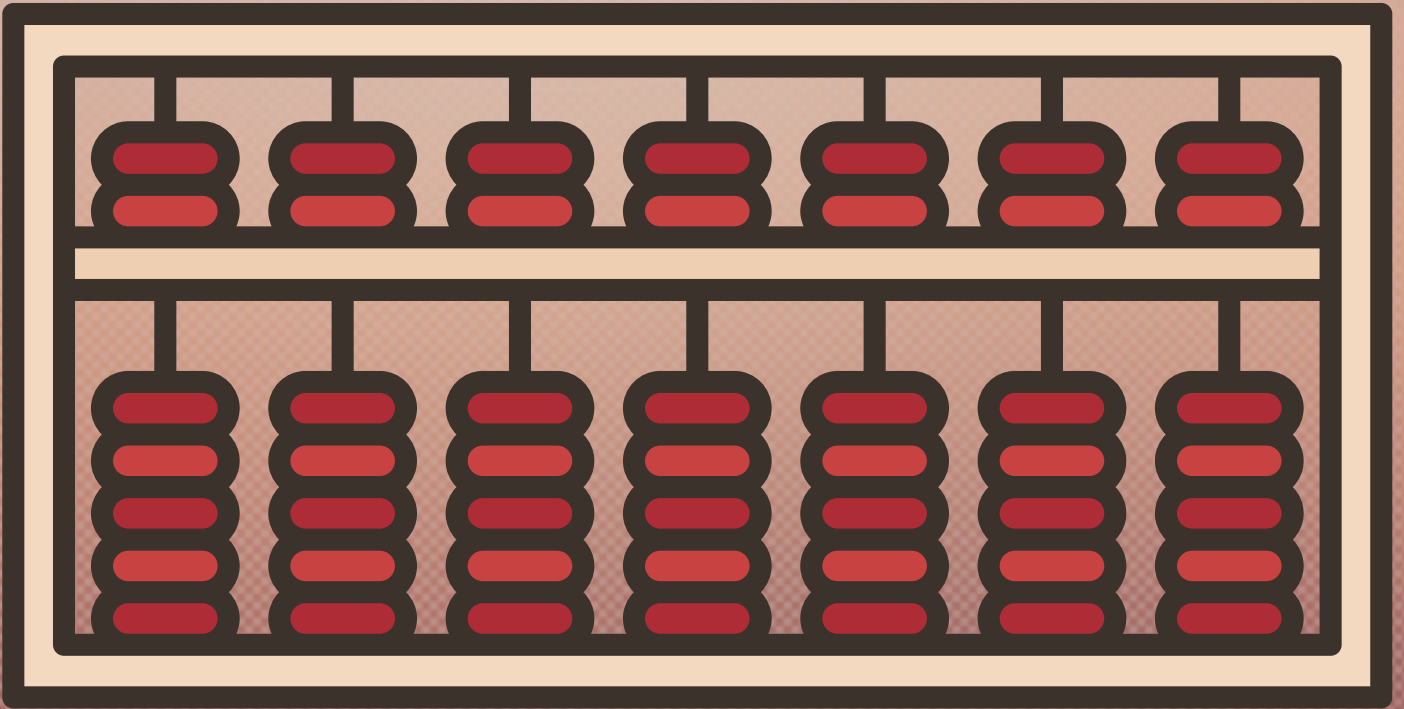
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

SAMPLE

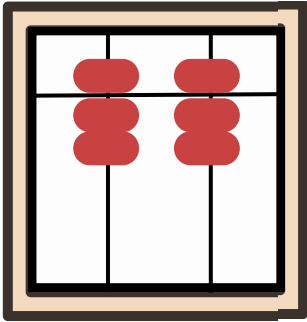
NIM

Saun Pan

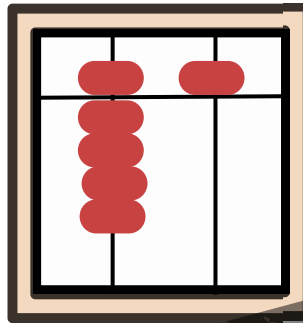
14



On a Chinese abacus (Saun Pan), the counters represent different numbers. If you had 6 counters. How many different numbers could you make?



Each represents 5
Each represents 1
This represents 77



Each represents 5
Each represents 1
This represents 95

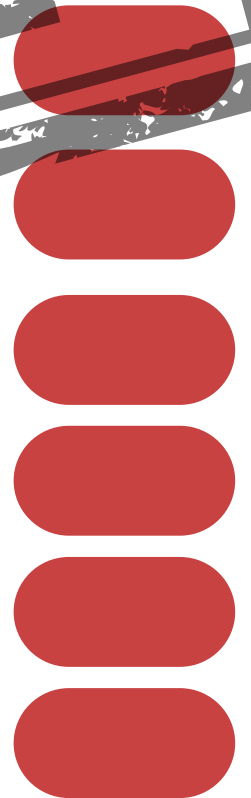
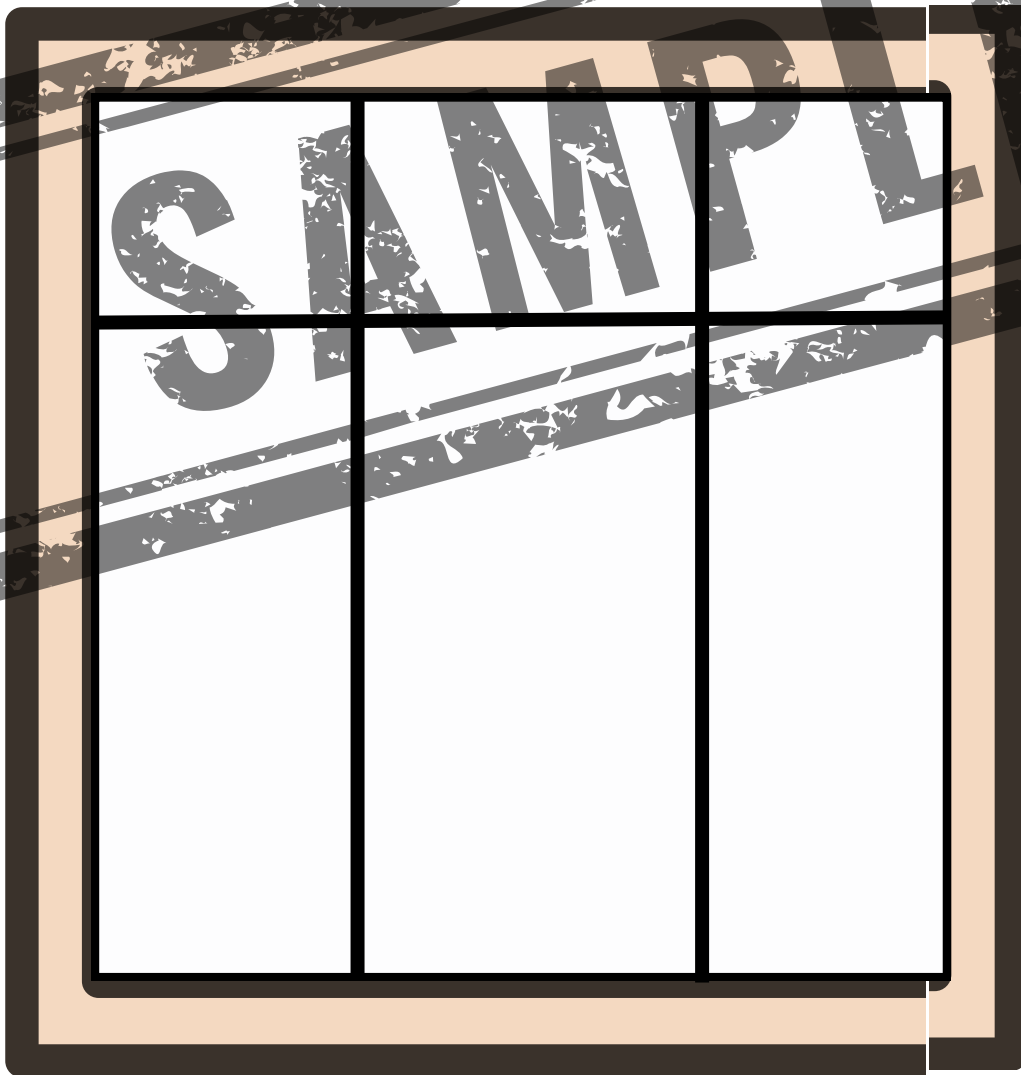
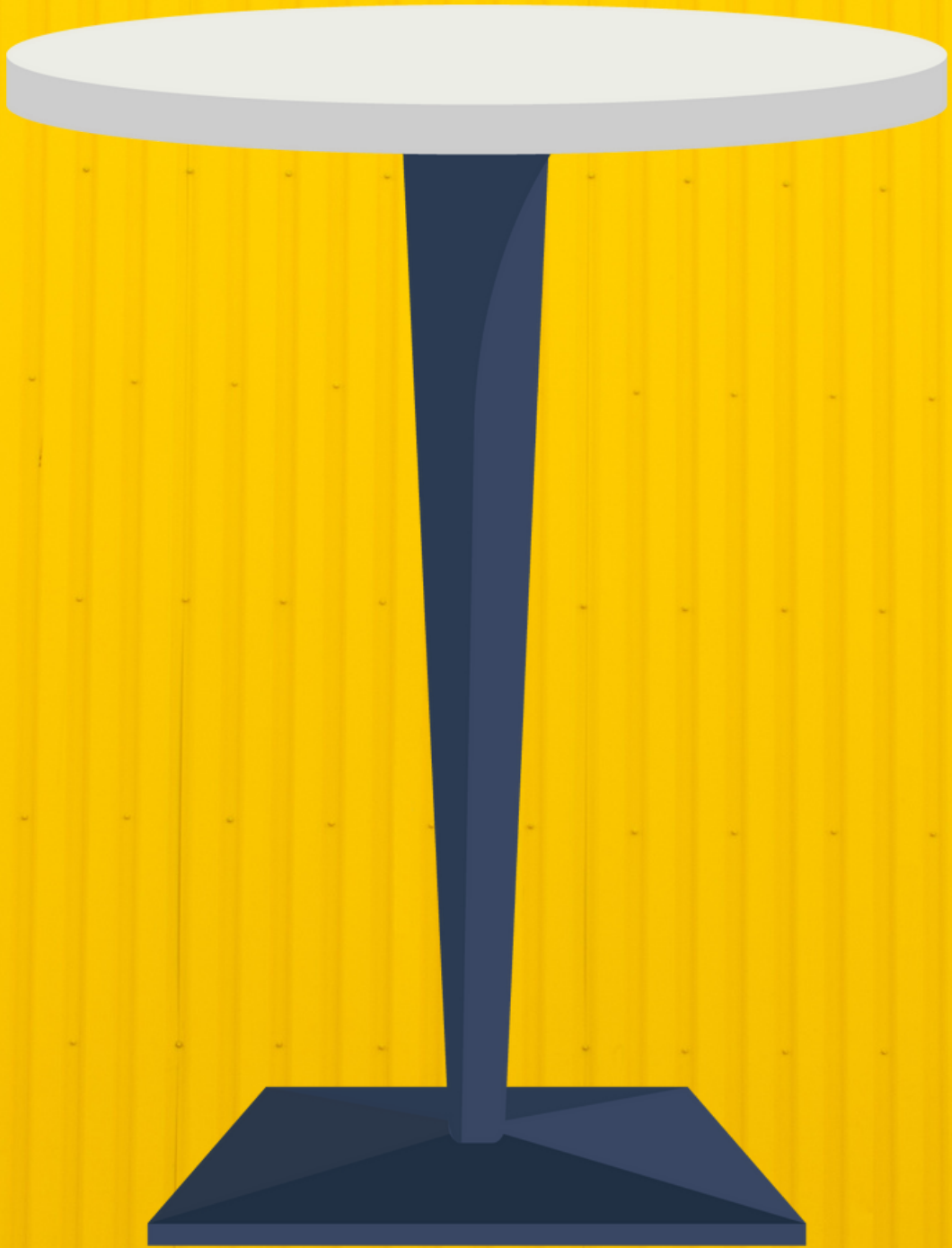
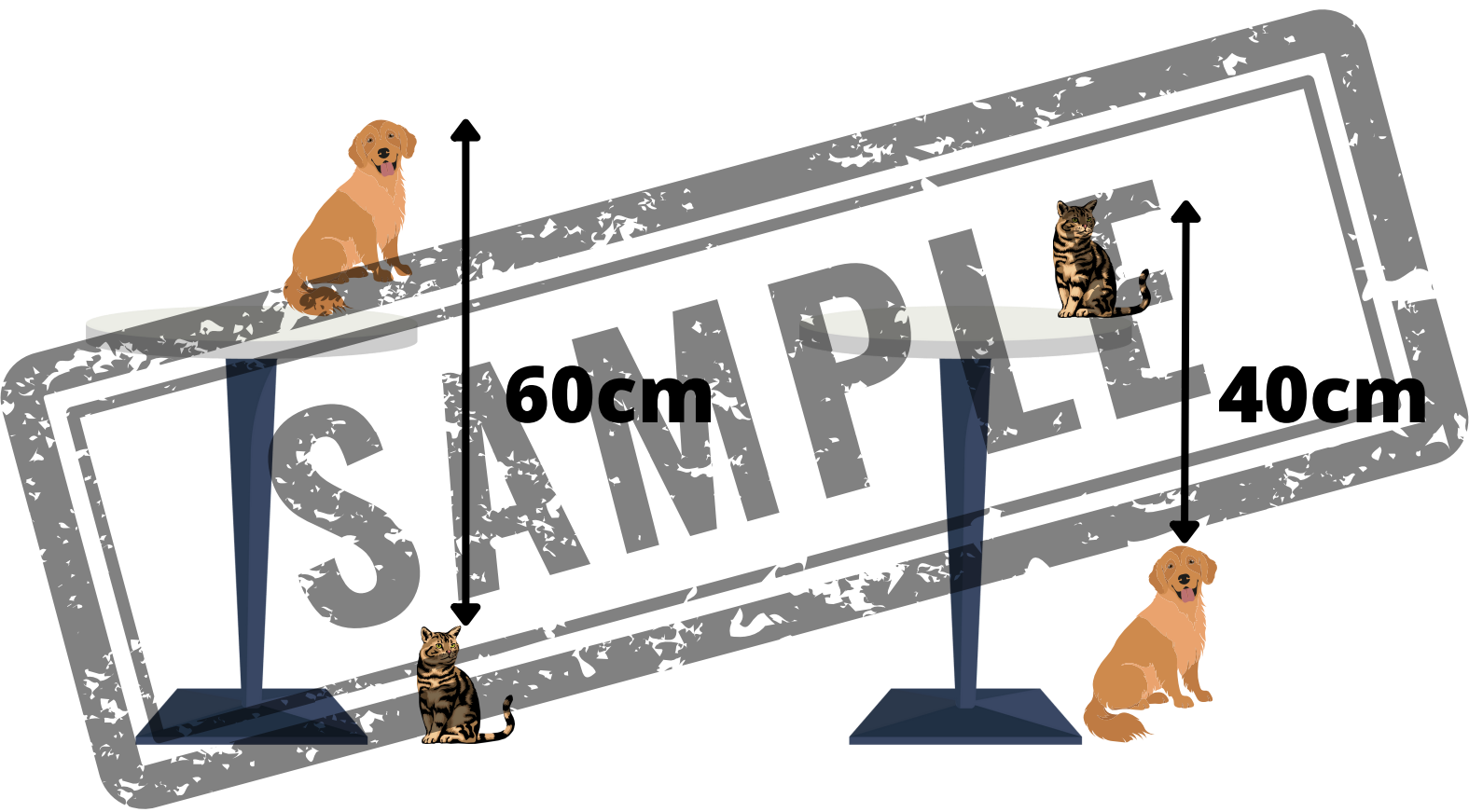


Table
15

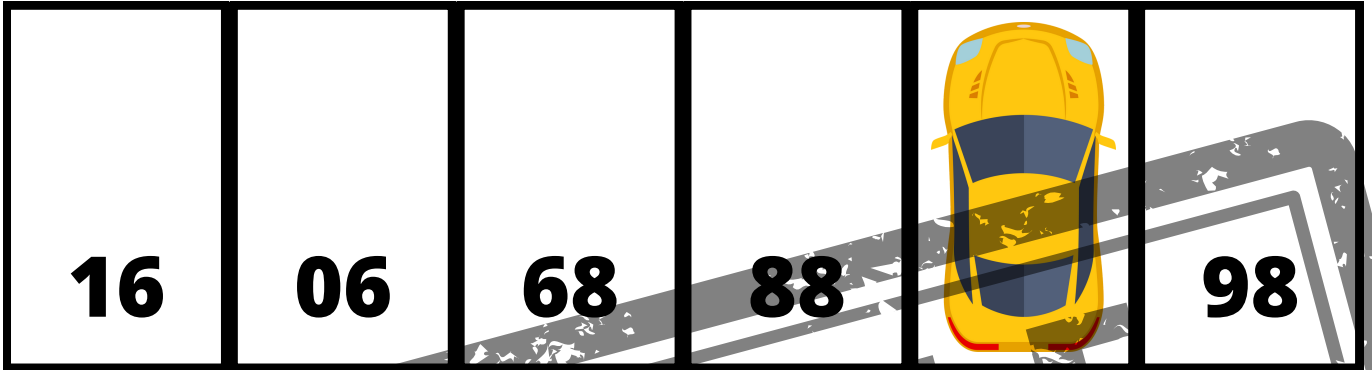


How tall is the table?





What is the number of the parking bay covered by the car?



SAMPLE



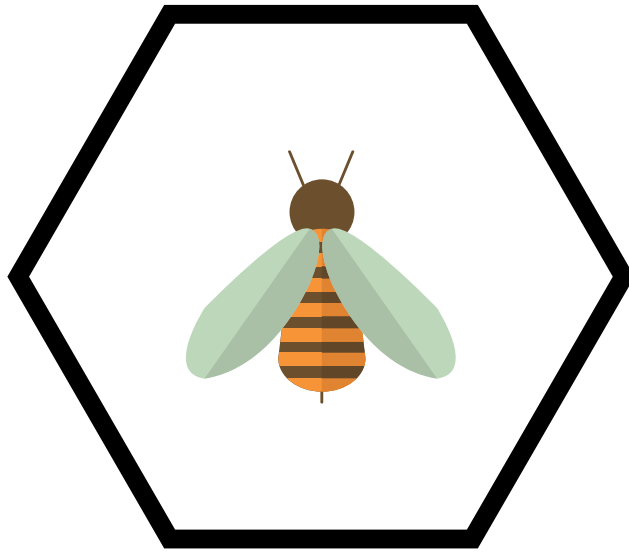
Colour code

20

How could you colour the squares to continue the pattern?



SAMPLE



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