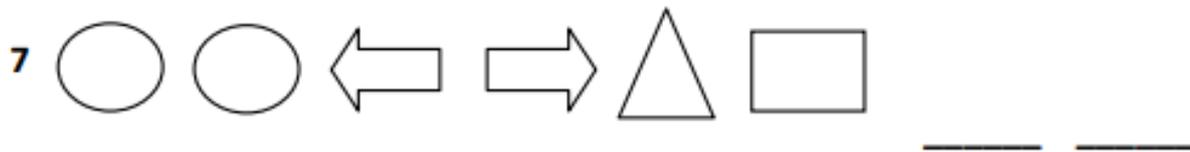


Name _____

N4 Maths Sequences

Copy these patterns into your jotter and draw the next 2 shapes



Copy these sequences into your jotter and write down the next 2 numbers

- 1** 1, 2, 3, 4,,, **2** 2, 4, 6, 8,,, **3** 3, 5, 7, 9,,,
4 1, 4, 7, 17,,, **5** 5, 8, 11, 14,,, **6** 7, 11, 15, 19,,,
7 23, 22, 21, 20,,, **8** 19, 17, 15, 13,,, **9** 41, 43, 45, 47,,,
10 32, 34, 36, 38,,, **11** 16, 19, 22, 25,,, **12** 17, 20, 23, 26,,,
13 39, 36, 33, 30,,, **14** 51, 48, 45, 42,,, **15** 21, 25, 29, 33,,,
16 52, 56, 60, 64,,, **17** 4, 5, 6, 7,,, **18** 9, 10, 11, 12,,,
19 4, 6, 8, 10,,, **20** 6, 9, 12, 15,,, **21** 10, 15, 20, 25,,,
22 5, 7, 9, 11,,, **23** 8, 11, 14, 17,,, **24** 21, 19, 17, 15,,,
25 36, 30, 24, 18,,, **26** 10, 13, 16, 19,,, **27** 23, 19, 15, 11,,,

Copy and complete each table

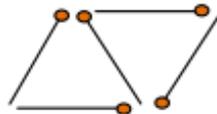
a

Design Number	1	2	3
Number of matches			

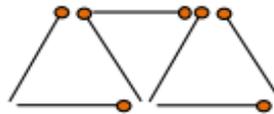
Design1



Design 2



Design 3



b

Design number	1	2	3	4
Number of circles				

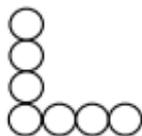
Design 1



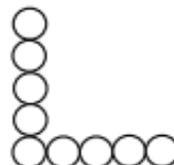
Design 2



Design 3



Design 4



- How many circles will be needed for design 5 ?
- How many circles will be needed for design 10 ?
- What is the rule for working out the number of circles, if you know the design number?

For each question:

- a Copy and complete the table
- b Write down the **rule** for the table

1

A	1	2	3	4	5	6		10
B	2	4	6					

Rule:

2

C	1	2	3	4	5	6		10
D	3	6	9					

Rule:

3

E	1	2	3	4	5	6		10
F	4	8	12					

Rule:

4

G	1	2	3	4	5	6		10
H	5	10	15					

Rule:

5

I	1	2	3	4	5	6		12
J	3	5	7					

Rule:

6

K	1	2	3	4	5	6		12
L	4	7	10					

Rule:

7

M	1	2	3	4	5	6		9
N	4	6	8					

Rule:

8

P	1	2	3	4	5	6		12
Q	5	8	11					

Rule:

9

R	1	2	3	4	5	6		20
S	4	9	14					

Rule:

10

T	1	2	3	4	5	6		11
V	5	11	17					

Rule:

11

W	1	2	3	4	5	6		13
X	8	11	14					

Rule:

12

Y	1	2	3	4	5	6		10
Z	8	13	18					

Rule:

13

A	1	2	3	4	5	6		15
B	10	12	14					

Rule:

14

C	1	2	3	4	5	6		10
D	10	13	16					

Rule:

15

A	1	2	3	4	5	6		20
B	5	8	11					

Rule:

16

C	1	2	3	4	5	6		25
D	6	8	10					

Rule:

17

E	1	2	3	4	5	6		50
F	1	3	5					

Rule:

18

G	1	2	3	4	5	6		100
H	1	4	7					

Rule:

19

J	1	2	3	4	5	6		50
K	4	7	10					

Rule:

20

L	1	2	3	4	5	6		25
M	5	9	13					

Rule: