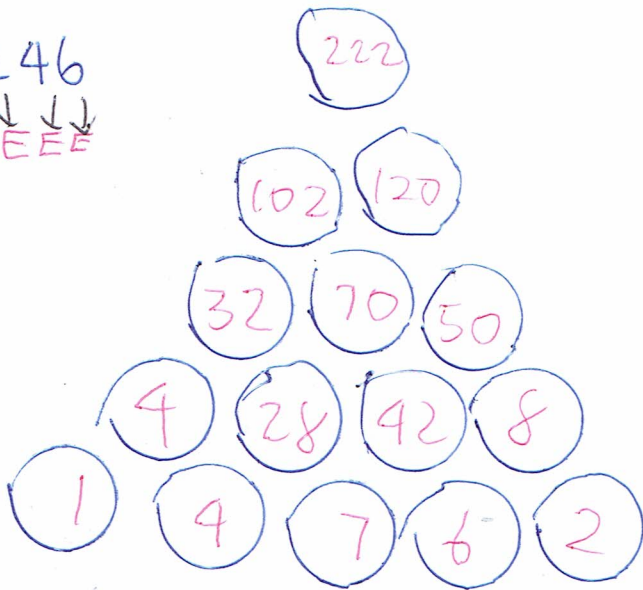


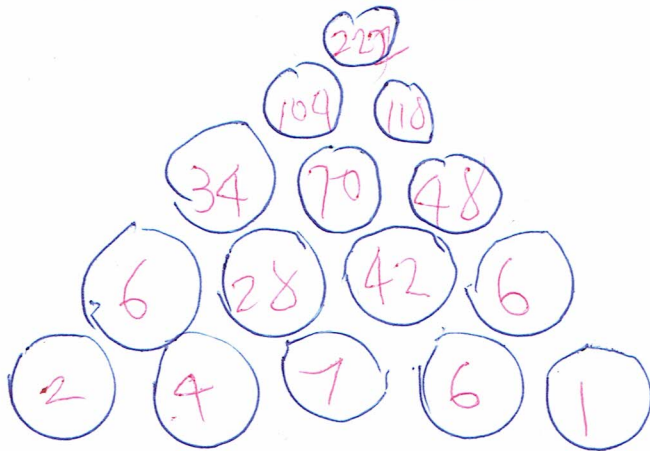
Question (1)

MAXI Pyramid

00
↑↑
71246
↓↓↓
EEE



I found 2 possible arrangements.



ONG CI HUI MINH NGOC

KELVIN GROVE STATE COLLEGE

CLASS: 5G

AUSTRALIA, BRISBANE

Maxi Pyramid

Investigate odd and even number patterns

E = even

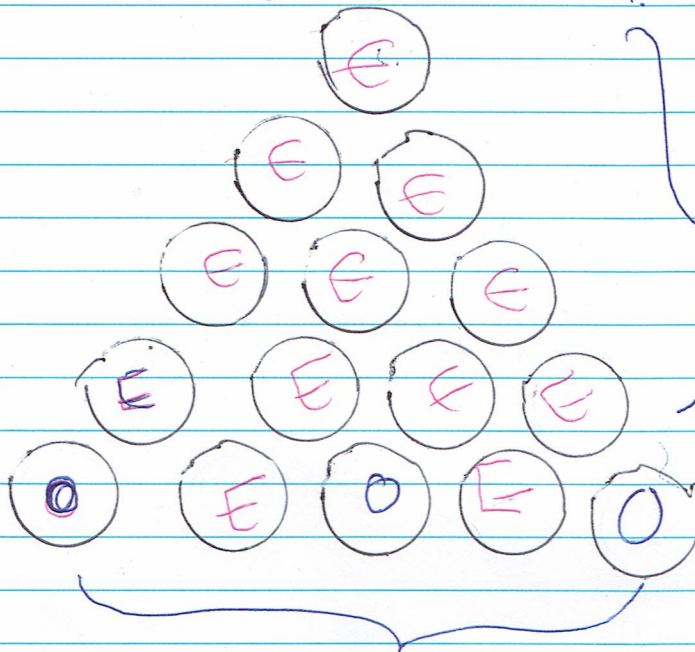
O = odd

$$E \times O = E$$

$$E + E = E$$

$$O - O = E$$

*NO 'O' permitted
 According to the rules of this
 game:
 4.



ALL EVEN
 all max
 ∵ E + E is
 one of the rules

To maximize the number on the top,
 you must have a maximum no. of ~~multiplications~~
 multiplications at the bottom.
 $O \times E = E$

Two possibilities

(1.) OEOEO

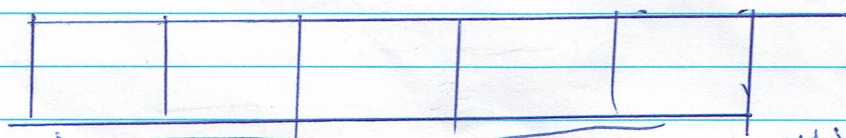
(2.) EOEOE

Rules With:

For 1 to 20

Maximum no. at the bottom.

Also



Sum is 20

no repeats
 no zeros

NUMBERS 1 st	2 nd	3 rd	4 th	5 th	Sum		O and E
20	0	0	0	0	20		
19	1	0	0	0	20		
18	1	1	0	0	20		
18	2	0	0	0	20		
17	3	0	0	0	20		
17	1	2	0	0	20		
17	1	1	1	0	20		
.		
10	1	2	3	4	20	✓	3E'20'
9	1	2	3	5	20	✓	40'1E'
8	1	2	3	6	20	✓	3E'20'
8	1	2	4	5	20	✓	3E'20'
7	1	2	4	6	20	✓	20'3E'
7	1	4	5	3	20	✓	40'1E'
.		

X NOT MAXI. number

X NOT max number

