

# NUMBER PATTERNS

Treasure-hunter Jack has received a secret message in a sequence of numbers. Decoded, it will tell him the location of the world's largest diamond, the Golden Jubilee. The message is encoded in a "letter number" cipher. This is when letters are replaced as numbers. However only the MISSING NUMBERS will reveal the true location. Find out what these numbers are!

(Hint: The numbers follow a pattern. You will have to subtract, divide, add or multiply by a whole number or fraction to find the missing numbers.)

Example:

(+5) 5    10    15    20    25    Then the letter is Y

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

1.        5        10                40        80

2.        29        22        15               

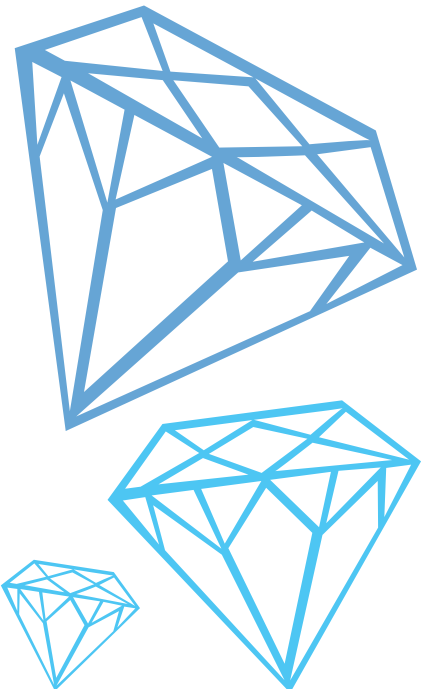
3.         $\frac{27}{2}$                 6        4         $\frac{8}{3}$

4.        -60        -36        -12                36

5.        81        27        9        3       

6.        3024        504        84                 $\frac{7}{3}$

7.        20        16        12        8       



Where is the location of the Golden Jubilee Diamond?

\_\_\_\_\_

1        2a        2b        3        4        5        6        7