

# Number Patterns

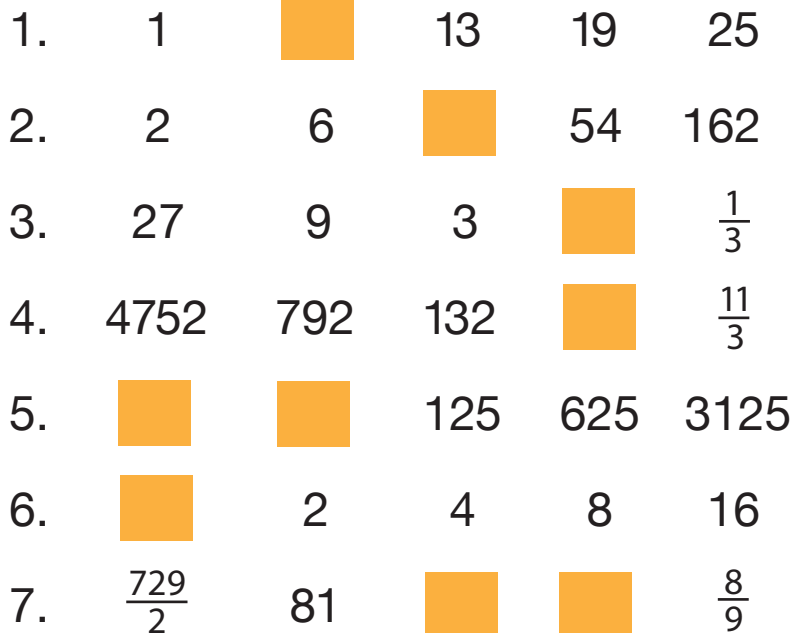
Vicki the vampire just got her invitation to the annual ghoulish gala! She is very excited about this year's event, but the invitation is encoded in a "letter-number" cipher. This is when letters are replaced by numbers. Solve the number pattern problems below to decode the cipher and help Vicki figure out the location of this year's party!

The numbers follow a pattern and you will need to add, subtract, divide, or multiply to find the missing numbers.

Example:

2    6    10    14    18    (+4) The letter is N

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

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- 1        13    19    25
  - 2    2    6        54    162
  - 3    27    9    3         $\frac{1}{3}$
  - 4    4752    792    132         $\frac{11}{3}$
  - 5            125    625    3125
  - 6        2    4    8    16
  - 7     $\frac{729}{2}$     81             $\frac{8}{9}$

Join us for the annual Ghoul Gala!  
10:00 pm at the:

1    2    3    4    5a    5b    6    7a    7b

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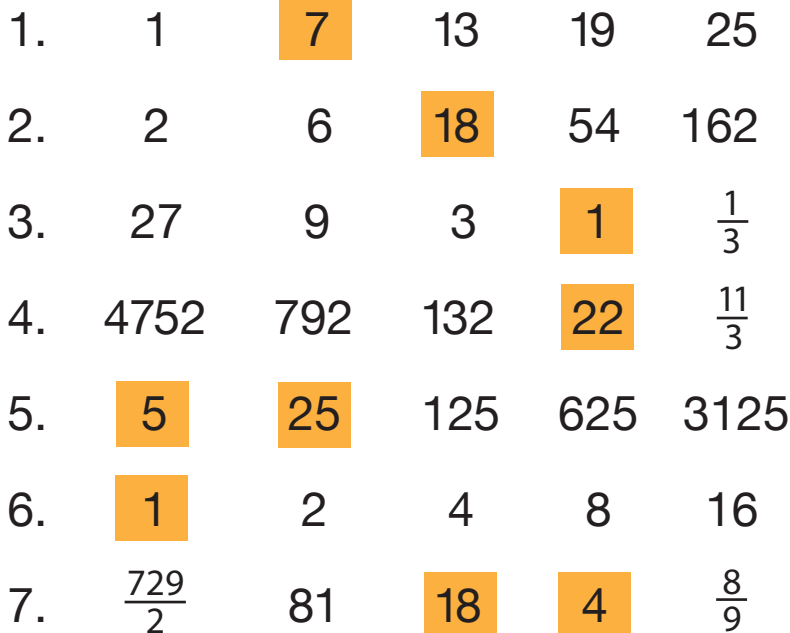
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- 1    **7**    13    19    25
  - 2    2    6    **18**    54    162
  3.    27    9    3    **1**     $\frac{1}{3}$
  4.    4752    792    132    **22**     $\frac{11}{3}$
  5.    **5**    **25**    125    625    3125
  6.    **1**    2    4    8    16
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**G    R    A    V    E    Y    A    R    D**

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