

## Crack the Safe: Number Patterns

No	Question	Answer
1	What is the next number in this sequence? 1, 4, 7, 10, 13, ...	16 (3n-2)
2	What is the missing number? 19, 11, ... , -5, -13	3 (27-8n)
3	What do you add on each time? 107, 208, 309, 410	101 (101n+6)
4	What is the 4 <sup>th</sup> number following this rule? 2n	8
5	What is the 10 <sup>th</sup> number in the sequence? 17, 21, 25, 29, ...	53 (4n+13)
6	This sequence follows the rule: $3n + a$ . 5, 8, 11, 14, 17,... What is a?	2
7	What is the 50 <sup>th</sup> number in this sequence? 9, 11, 13, 15, 17, ...	107 (2n+7)
8	What is the 100 <sup>th</sup> number in this sequence? 6, 11, 16, 21, 26, ...	501 (5n+1)

**The code is the total of all of the answers**

**791**

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