

Generate a sequence from a stated rule

NAME	DATE	SCORE / 10
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- 1** The first number in a pattern is 38. The rule is: add 4 each time. Write the first six numbers in the pattern.

- 2** Ivy starts at 24, and the rule is add 7 each time. Ivy writes 24, 31, 38, 44, 51, 58. Which number is Ivy's first mistake?

☐ 44 ☐ 38 ☐ 58 ☐ 51

- 3** The first number in a pattern is 7. The rule is: multiply by 2, then subtract 1, each time. Write the first six numbers in the pattern.

- 4** Maya starts at 81, and the rule is subtract 11 each time. Maya writes 81, 70, 59, 49, 38, 27. Which number is Maya's first mistake?

☐ 49 ☐ 38 ☐ 70 ☐ 27

- 5** The first number in a pattern is 97. The rule is: subtract 12 each time. Write the first six numbers in the pattern.

- 6** Ivy starts at 37, and the rule is subtract 3 each time. Ivy writes 37, 34, 32, 29, 26, 23. Which number is Ivy's first mistake?

☐ 32 ☐ 29 ☐ 26 ☐ 23

7

The first number in a pattern is 64. The rule is: divide by 2 each time. Write the first six numbers in the pattern.

8

Dev starts at 49, and the rule is add 6 each time. Dev writes 49, 55, 61, 68, 74, 80. Which number is Dev's first mistake?

☐ 74 ☐ 61 ☐ 55 ☐ 68

9

The first number in a pattern is 4. The rule is: multiply by 2 each time. Write the first six numbers in the pattern.

10

Noah starts at 44, and the rule is add 3 each time. Noah writes 44, 47, 50, 54, 57, 60. Which number is Noah's first mistake?

☐ 57 ☐ 60 ☐ 54 ☐ 47

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1	38, 42, 46, 50, 54, 58	2	44
3	7, 13, 25, 49, 97, 193	4	49
5	97, 85, 73, 61, 49, 37	6	32
7	64, 32, 16, 8, 4, 2	8	68
9	4, 8, 16, 32, 64, 128	10	54