

Generate a sequence from a stated rule

NAME	DATE	SCORE / 10
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- 1** The first number in a pattern is 4. The rule is: multiply by 2, then add 2, each time. Write the first six numbers in the pattern.

- 2** Leo starts at 26, and the rule is add 6 each time. Leo writes 26, 32, 38, 44, 51, 57. Which number is Leo's first mistake?

☐ 57
 ☐ 51
 ☐ 44
 ☐ 38

- 3** The first number in a pattern is 6. The rule is: multiply by 2, then subtract 2, each time. Write the first six numbers in the pattern.

- 4** Maya starts at 79, and the rule is subtract 10 each time. Maya writes 79, 69, 58, 48, 38, 28. Which number is Maya's first mistake?

☐ 48
 ☐ 28
 ☐ 69
 ☐ 58

- 5** The first number in a pattern is 62. The rule is: add 7 each time. Write the first six numbers in the pattern.

- 6** Dev starts at 57, and the rule is subtract 3 each time. Dev writes 57, 54, 51, 49, 46, 43. Which number is Dev's first mistake?

☐ 51
 ☐ 54
 ☐ 43
 ☐ 49

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 26, and the rule is add 11 each time. Dev writes 26, 37, 49, 60, 71, 82. Which number is Dev's first mistake?

☐ 71 ☐ 49 ☐ 60 ☐ 37

9

The first number in a pattern is 81. The rule is: subtract 2 each time. Write the first six numbers in the pattern.

10

Maya starts at 48, and the rule is add 8 each time. Maya writes 48, 56, 64, 71, 79, 87. Which number is Maya's first mistake?

☐ 87 ☐ 71 ☐ 79 ☐ 64

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1	4, 10, 22, 46, 94, 190	2	51
3	6, 10, 18, 34, 66, 130	4	58
5	62, 69, 76, 83, 90, 97	6	49
7	64, 32, 16, 8, 4, 2	8	49
9	81, 79, 77, 75, 73, 71	10	71