

Number Sequences

Advanced — ANSWER KEY

Multiplying and growing patterns.

Think: If the jumps get bigger fast, try multiplying — or adding the two before it.

1. Find the pattern. Fill the missing numbers and write the rule.

1)	2	3	5	8	12	17
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Rule: add 1 more each time (+1, +2, +3, ...)

2)	4	3	7	10	17	27
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Rule: add the two numbers before it

3)	3	9	27	81	243	729
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Rule: $\times 3$ each time

4)	6	7	9	12	16	21
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Rule: add 1 more each time (+1, +2, +3, ...)

5)	5	2	7	9	16	25
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Rule: add the two numbers before it

6)	3	4	6	9	13	18
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Rule: add 1 more each time (+1, +2, +3, ...)

7)	3	6	12	24	48	96
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Rule: $\times 2$ each time

8)	5	3	8	11	19	30
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Rule: add the two numbers before it