

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)

3	6	9	15	24	39
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Rule: add the two numbers before it

2)

1	2	3	5	8	13
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Rule: add the two numbers before it

3)

4	5	7	10	14	19
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Rule: add 1 more each time (+1, +2, +3, ...)

4)

5	6	8	11	15	20
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Rule: add 1 more each time (+1, +2, +3, ...)

5)

2	4	8	16	32	64
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Rule: $\times 2$ each time

6)

1	2	4	8	16	32
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Rule: $\times 2$ each time

7)

5	7	12	19	31	50
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Rule: add the two numbers before it

8)

1	3	9	27	81	243
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Rule: $\times 3$ each time