

**Determine the rule in an input-output table****1**

13, 10, 7, 4



A

Start at 1 and multiply by 1 for each term

B

Start at 13 and subtract 3 for each term

2

Decreasing (Arithmetic)

A Start at 18 and subtract 4 for each term

B Find that 5, 9 repeats and repeat those numbers

3

4, 5, 6

A

$$n + 1$$

B

$$n + 5$$

C

$$n + 3$$

D

$$n + 4$$

E

$$n + 0$$

4

6, 8, 6, 8

A Find that 6, 8 repeats and repeat those numbers

B Start with 1 and 2. Add the prior two terms for each subsequent term

5

1, 3, 5, 7

A Start at 1 and subtract 2 for each term

B Start at 1 and add 2 for each term

C Start at -3 and add 2 for each term

D Start at 4 and add 2 for each term

E Start at 2 and add 2 for each term

F Start at 1 and add 6 for each term

6

18, 15, 12, 9, 6

A Start at 18 and subtract 3 for each term

B Start at 17 and subtract 3 for each term

C Start with 18 and 21. Add the prior two terms for each subsequent term

D Start at 16 and subtract 3 for each term

E Start at 18 and add 3 for each term

F Start at 18 and subtract 6 for each term

7

1, 2, 4, 8, 16, 32

A Start at 1 and multiply by 2 for each term

B Start at 1 and multiply by 0 for each term

C Start at 1 and multiply by -1 for each term

D Start at 1 and subtract 2 for each term

E Start with 1 and 3. Add the prior two terms for each subsequent term

F Start at 1 and multiply by -2 for each term

8

3, 6, 9, 12

A Start at 3 and add 3 for each term

B Start with 3×3 . The next term is 4×4 , and so on.

**Determine the rule in an input-output table****9**

2, 5, 8, 11

- | | |
|--|--|
| A Start with 2 and 5. Add the prior two terms for each subsequent term | B Start at 2 and multiply by 3 for each term |
| C Start at 2 and add -1 for each term | D Start at 2 and add 3 for each term |
| E Start at 2 and subtract 3 for each term | F Start at 0 and add 3 for each term |

10

10, 8, 6, 4

- | | |
|---|--|
| A Start at 10 and multiply by 2 for each term | B Start with 10 and 12. Add the prior two terms for each subsequent term |
| C Start at 8 and subtract 2 for each term | D Start at 10 and add 2 for each term |
| E Start at 10 and subtract 1 for each term | F Start at 10 and subtract 2 for each term |

11

2, 8, 32, 128

- | | |
|--|--|
| A Start at 0 and multiply by 4 for each term | B Start with 2 and 6. Add the prior two terms for each subsequent term |
| C Start at 5 and multiply by 4 for each term | D Start at 2 and subtract 4 for each term |
| E Start at 2 and multiply by 4 for each term | F Start at 2 and add 4 for each term |

12

2, 4, 2, 4

- | | |
|--|---|
| A Start at 16 and subtract 1 for each term | B Find that 2, 4 repeats and repeat those numbers |
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