



Describe pattern rules

1

Start at 15 and subtract 3 for each term

A 1, 1, 1

B 15, 12, 9, 6

2

Start at 1 and multiply by 4 for each term

A 1, 2, 4, 8

B -1, -4, -16, -64

C 1, 5, 6, 11

D 1, 5, 9, 13

E 1, 4, 16, 64

F 1, -3, -7, -11

3

Find that 3, 8 repeats and repeat those numbers

A Repeating

B Quadratic

4

Decreasing (Arithmetic)

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

B Start at 13 and subtract 3 for each term

5

What rule turns each input into its output?

Input	Output
2	11
4	13
5	14
14	23
15	24

A subtract 4

B add 9

C subtract 7

D subtract 11

6

Does this rule create each output from its input?

Rule: multiply by 5

Input	Output
5	1
10	2
15	3
35	7
45	9

A No

B Yes

7

What rule turns each input into its output?

Input	Output
1	8
2	16
4	32
7	?
8	64

A multiply by 4

B divide by 5

C multiply by 8

D add 5

8

Does this rule create each output from its input?

Rule: multiply by 4 then add 5

Input	Output
2	0
3	3
4	6
5	9
7	15

A No

B Yes



Describe pattern rules

9

4, 3, 4, 3

A Start with 1×1 . The next term is 2×2 , and so on.

B Find that 4, 3 repeats and repeat those numbers

10

1, 3, 9, 27, 81, 243

A Start with 1 and 4. Add the prior two terms for each subsequent term

B Start at 1 and add 3 for each term

C Start at 1 and subtract 3 for each term

D Start at 4 and multiply by 3 for each term

E Start at 1 and multiply by 3 for each term

F Start at -3 and multiply by 3 for each term

11

What rule turns each input into its output?

Input	Output
2	12
4	22
5	27
6	32
7	37

A multiply by 2 then subtract 2

B multiply by 6 then add 9

C multiply by 3 then add 11

D multiply by 5 then add 2

12

What rule turns each input into its output?

Input	Output
2	1
9	8
11	10
12	11
13	12

A add 5

B divide by 7

C subtract 1

D add 7