



Describe pattern rules using words

1

1, 4, 7, 10



1



2



3



4

A

1, 4, 7, 10

B

6, 9, 6, 9, 6, 9

2

Find that 1, 6 repeats and repeat those numbers

A 1, 6, 1, 6

B 3, 6, 9, 12

3

Start at 1 and multiply by 4 for each term

A

1, 5, 9, 13

B

1, -3, -7, -11

C

-1, -4, -16, -64

D

1, 2, 4, 8

E

1, 4, 16, 64

F

1, 5, 6, 11

4

What is the missing value in the table?

Rule: divide by 8

Input	Output
8	?
24	3
32	4
48	6
72	9

A 1

B 96

C 2

D 64

5

Does this rule create each output from its input?

Rule: divide by 6

Input	Output
6	1
12	2
18	3
36	6
54	9

A No

B Yes

6

What rule turns each input into its output?

Input	Output
8	2
10	?
11	5
12	6
15	9

A subtract 6

B multiply by 3

C add 1

D add 4

7

What rule turns each input into its output?

Input	Output
1	0
4	6
5	8
7	12
9	16

A multiply by 6 then subtract 4

B multiply by 6 then subtract 9

C multiply by 2 then subtract 2

D multiply by 6 then add 8

8

25, 19, 13, 7

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

B Start at 25 and subtract 6 for each term



Describe pattern rules using words

9

3, 9, 27, 81, 243, 729

- A Start at 3 and subtract 3 for each term
- B Start with 3 and 6. Add the prior two terms for each subsequent term
- C Start at 4 and multiply by 3 for each term
- D Start at 2 and multiply by 3 for each term
- E Start at 3 and multiply by 3 for each term
- F Start at 3 and add 3 for each term

10

What rule turns each input into its output?

Input	Output
1	8
6	48
7	56
8	64
9	72

- A divide by 4
- B multiply by 8
- C divide by 10
- D divide by 6

11

What rule turns each input into its output?

Input	Output
2	0
3	2
4	4
5	6
7	10

- A multiply by 2 then subtract 4
- B multiply by 3 then add 1
- C multiply by 2 then add 6
- D multiply by 4 then subtract 8

12

17, 13, 9, 5

- A Start with 1 and 2. Add the prior two terms for each subsequent term
- B Start at 17 and subtract 4 for each term