



Continue the sequence:

1	4,	14,	6,	16,	_____	_____
2	3,	6,	12,	24,	_____	_____
3	4,	9,	16,	25,	_____	_____
4	5,	15,	45,	135,	_____	_____
5	4,	13,	6,	15,	_____	_____
6	3,	12,	8,	14,	_____	_____
7	16,	20,	24,	28,	_____	_____
8	1,	4,	9,	16,	_____	_____
9	2,	12,	7,	17,	_____	_____
10	4,	9,	16,	25,	_____	_____
11	7,	12,	17,	22,	_____	_____
12	5,	10,	15,	20,	_____	_____
13	25,	36,	49,	64,	_____	_____
14	13,	17,	21,	25,	_____	_____
15	20,	29,	38,	47,	_____	_____
16	9,	11,	13,	15,	_____	_____
17	9,	16,	25,	36,	_____	_____
18	16,	25,	36,	49,	_____	_____
19	5,	10,	20,	40,	_____	_____
20	11,	19,	27,	35,	_____	_____
21	9,	16,	25,	36,	_____	_____
22	2,	4,	8,	16,	_____	_____
23	2,	10,	6,	15,	_____	_____
24	3,	11,	6,	13,	_____	_____



Answer key

- 1

4, 14, 6, 16, 8, 18

Rule: two interleaved sequences (add 2 and add 2)
- 2

3, 6, 12, 24, 48, 96

Rule: multiply by 2
- 3

4, 9, 16, 25, 36, 49

Rule: square numbers (2^2 , 3^2 , 4^2 , ...)
- 4

5, 15, 45, 135, 405, 1215

Rule: multiply by 3
- 5

4, 13, 6, 15, 8, 17

Rule: two interleaved sequences (add 2 and add 2)
- 6

3, 12, 8, 14, 13, 16

Rule: two interleaved sequences (add 5 and add 2)
- 7

16, 20, 24, 28, 32, 36

Rule: add 4
- 8

1, 4, 9, 16, 25, 36

Rule: square numbers (1^2 , 2^2 , 3^2 , ...)
- 9

2, 12, 7, 17, 12, 22

Rule: two interleaved sequences (add 5 and add 5)
- 10

4, 9, 16, 25, 36, 49

Rule: square numbers (2^2 , 3^2 , 4^2 , ...)
- 11

7, 12, 17, 22, 27, 32

Rule: add 5
- 12

5, 10, 15, 20, 25, 30

Rule: add 5
- 13

25, 36, 49, 64, 81, 100

Rule: square numbers (5^2 , 6^2 , 7^2 , ...)
- 14

13, 17, 21, 25, 29, 33

Rule: add 4
- 15

20, 29, 38, 47, 56, 65

Rule: add 9
- 16

9, 11, 13, 15, 17, 19

Rule: add 2
- 17

9, 16, 25, 36, 49, 64

Rule: square numbers (3^2 , 4^2 , 5^2 , ...)
- 18

16, 25, 36, 49, 64, 81

Rule: square numbers (4^2 , 5^2 , 6^2 , ...)



Answer key

- 19

5, 10, 20, 40, 80, 160

Rule: multiply by 2
- 20

11, 19, 27, 35, 43, 51

Rule: add 8
- 21

9, 16, 25, 36, 49, 64

Rule: square numbers (3², 4², 5², ...)
- 22

2, 4, 8, 16, 32, 64

Rule: multiply by 2
- 23

2, 10, 6, 15, 10, 20

Rule: two interleaved sequences (add 4 and add 5)
- 24

3, 11, 6, 13, 9, 15

Rule: two interleaved sequences (add 3 and add 2)