



Continue the sequence:

- 1

5,

15,

8,

18,

\_\_\_\_\_

,

\_\_\_\_\_
- 2

15,

22,

29,

36,

\_\_\_\_\_

,

\_\_\_\_\_
- 3

1,

4,

9,

16,

\_\_\_\_\_

,

\_\_\_\_\_
- 4

5,

10,

20,

40,

\_\_\_\_\_

,

\_\_\_\_\_
- 5

6,

14,

8,

17,

\_\_\_\_\_

,

\_\_\_\_\_
- 6

16,

20,

24,

28,

\_\_\_\_\_

,

\_\_\_\_\_
- 7

1,

4,

9,

16,

\_\_\_\_\_

,

\_\_\_\_\_
- 8

1,

3,

9,

27,

\_\_\_\_\_

,

\_\_\_\_\_
- 9

16,

25,

36,

49,

\_\_\_\_\_

,

\_\_\_\_\_
- 10

1,

4,

9,

16,

\_\_\_\_\_

,

\_\_\_\_\_



Verify answers

Answer key

- 1

5,15,8,18,11,21

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

15,22,29,36,43,50

Rule: add 7
- 3

1,4,9,16,25,36

Rule: square numbers (1<sup>2</sup>, 2<sup>2</sup>, 3<sup>2</sup>, ...)
- 4

5,10,20,40,80,160

Rule: multiply by 2
- 5

6,14,8,17,10,20

Rule: two interleaved sequences (add 2 and add 3)
- 6

16,20,24,28,32,36

Rule: add 4
- 7

1,4,9,16,25,36

Rule: square numbers (1<sup>2</sup>, 2<sup>2</sup>, 3<sup>2</sup>, ...)
- 8

1,3,9,27,81,243

Rule: multiply by 3
- 9

16,25,36,49,64,81

Rule: square numbers (4<sup>2</sup>, 5<sup>2</sup>, 6<sup>2</sup>, ...)
- 10

1,4,9,16,25,36

Rule: square numbers (1<sup>2</sup>, 2<sup>2</sup>, 3<sup>2</sup>, ...)