

Secret Sequences

Simple Sequences

A *sequence* is a set of numbers which follows a mathematical rule and a specific order.

Sample

(3, 6, 12, 24, 48, ...)

Each term after the first is multiplied by 2.

Directions: Study the Facts and Reminders page for this unit. Complete these sequences by filling in the blanks. Write the rule which the sequence follows. The first problem has been partially done for you.

1. (2, 4, 6, 8, 10, 12, 14, 16, 18)

Rule: add 2 or $n+2$

2. (1, 2, 3, _____, _____, 6, 7, _____, _____)

Rule: _____

3. (9, 13, 17, _____, _____, 29, 33, _____, _____)

Rule: _____

4. (8, 14, 22, 30, _____, _____, 54, 62, _____, _____)

Rule: _____

5. (5, 10, 15, _____, _____, _____, 35, 40, _____)

Rule: _____

6. (7, 10, 13, _____, _____, 22, 25, _____, _____)

Rule: _____

7. (40, 38, 36, 34, _____, _____, _____, _____)

Rule: _____

8. (132, 121, 110, 99, _____, _____, _____, _____)

Rule: _____

9. (98, 93, 88, _____, _____, 73, 68, _____, _____)

Rule: _____

10. (4, 10, 16, _____, _____, 34, _____, 46, _____)

Rule: _____

11. (1, 2, 4, 8, _____, _____, _____, 128, _____)

Rule: _____

12. (1, 3, 9, 27, _____, _____, _____, _____)

Rule: _____

13. (3, 6, 12, _____, 48, _____, _____, _____)

Rule: _____

14. (1, 4, 16, 64, _____, _____, _____, _____)

Rule: _____

15. (5, 15, 45, _____, _____, _____, _____)

Rule: _____

16. (1, 5, 25, _____, 625, _____, _____, _____)

Rule: _____

17. Can you find the rule and complete this sequence?

(2048, _____, 512, _____, 128, _____, 32, _____)

Rule: _____

