

Arithmetic Sequences Exit Quiz

Part A Instructions: Choose the option that completes the sentence or answers the question.

1. Which of these can be a term in an arithmetic sequence?

- a. integer
- b. fraction
- c. decimal
- d. All of these

2. A numerical sequence that increases or decreases at a constant rate is a/an:

- a. Geometric sequence
- b. Arithmetic sequence
- c. Harmonic sequence
- d. None of these

3. In an arithmetic sequence, the n^{th} term in a sequence is:

- a. $a_n = a_1 + (n + 1) \cdot d$
- b. $a_n = a + (n - 1) \cdot d$
- c. $a_n = (n - 1) \cdot d$
- d. None of these

4. The sequence $0, \frac{1}{3}, \frac{2}{3}, 1, \dots$ is a/an:

- a. Geometric sequence
- b. Arithmetic sequence
- c. Harmonic sequence
- d. None of these

Part B Instructions: Answer the question below.

5. Find the 6th term in the arithmetic sequence 1, 4, 7, 10, ...

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$$\text{Common difference: } 4 - 1 = 3 = 7 - 4$$

$$a_n = a_1 + (n - 1) \cdot d$$

$$a_6 = 1 + (6 - 1) \cdot 3$$

$$a_6 = 1 + 15 = 16$$