

applied to solve a variety of problems.

- **Common difference (d):** 2
- **First term (a_1):** 2
- **General term (a_n):** $a_1 + (n - 1)d = 2 + (n - 1) \times 2 = 2n$

Relevance in Problem Solving

Sample 2.4.6 Practice Questions with Detailed Solutions

Working through examples consolidates theoretical knowledge and provides insight into effective problem-solving techniques. The following sample questions illustrate typical 2.4.6 practice question formats with step-by-step solutions.

Sample Question 1: Find the 10th Term

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$$S_8 = (8/2)(2 \times 2 + (8 - 1) \times 2) = 4(4 + 14) = 4 \times 18 = 72 \text{ cm}$$

The plant grows a total of **72 cm** after 8 weeks.

Benefits of Regular Practice with 2.4.6 Questions

