# ANALYZE AN ENVIRONMENTAL PROBLEM AND PROPOSE A SOLUTION DOING CALCULATIONS (FREE-RESPONSE QUESTION 3)

An individual has decided to convert a grassy area on property to a large garden in order to grow food, primarily vegetables. The garden measures 50 meters in length by 7 meters in width.

- (a) Describe one environmental advantage of producing food locally.
- (b) Vegetable production in the garden was less than expected for the season.
  - i. Identify one soil property that affects crop production.
  - The gardener applied a synthetic fertilizer to the garden for the next growing season. Describe one benefit of using synthetic fertilizer in the garden.
  - A neighbor proposes using compost rather than a synthetic fertilizer on the garden, stating that composting is a more sustainable agricultural practice. Justify this claim.
- (c) The gardener finds a synthetic fertilizer with 34% nitrogen and a recommended application rate of 1 kg of nitrogen per 70.0 square meters. Calculate the number of kilograms of synthetic nitrogen fertilizer that should be spread on the garden area. Show your work.
- (d) The gardener also finds a local compost source with 2.5% nitrogen. Calculate the number of kilograms of compost that would need to be added to the garden to provide as much nitrogen as using the synthetic fertilizer. Show your work.
- (e) The price of a kilogram of synthetic fertilizer is \$3.11, while the price of a kilogram of compost is \$0.04. Calculate the savings to provide 1 kg of nitrogen per 70 square meters using compost rather than nitrogen. Show your work.

# **Environmental Science 2013 Response Question Answers**

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#### **Table of Contents Environmental Science 2013 Response Question Answers**

- 1. Understanding the eBook Environmental Science 2013 Response Question Answers
  - The Rise of Digital Reading Environmental Science 2013 Response Question Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Environmental Science 2013 Response Question Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Environmental Science 2013 Response Question Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Environmental Science 2013 Response Question Answers
  - Personalized Recommendations
  - Environmental Science 2013 Response Question Answers User Reviews and Ratings
  - Environmental Science 2013 Response Question Answers and Bestseller Lists
- 5. Accessing Environmental Science 2013 Response Question Answers Free and Paid eBooks
  - Environmental Science 2013 Response Question Answers Public Domain eBooks
  - Environmental Science 2013 Response Question Answers eBook Subscription Services

- Environmental Science 2013 Response Question Answers Budget-Friendly Options
- 6. Navigating Environmental Science 2013 Response Question Answers eBook Formats
  - o ePub, PDF, MOBI, and More
  - Environmental Science 2013 Response Question Answers Compatibility with Devices
  - Environmental Science 2013 Response Question Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Environmental Science 2013 Response Question Answers
  - Highlighting and Note-Taking Environmental Science 2013 Response Question Answers
  - Interactive Elements Environmental Science 2013 Response Question Answers
- 8. Staying Engaged with Environmental Science 2013 Response Question Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Environmental Science 2013 Response Question Answers
- 9. Balancing eBooks and Physical Books Environmental Science 2013 Response Question Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Environmental Science 2013 Response Question Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Environmental Science 2013 Response Question Answers
  - $\circ$  Setting Reading Goals Environmental Science 2013 Response Question Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Environmental Science 2013 Response Question Answers
  - Fact-Checking eBook Content of Environmental Science 2013 Response Question Answers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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