

**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.
 - ii. The gardener applied a synthetic fertilizer to the garden for the next growing season. **Describe** one benefit of using synthetic fertilizer in the garden.
 - iii. 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

Mark Steyvers



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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Environmental Science 2013 Response Question Answers** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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web oct 13 2023 method 1 doing a traditional balance download article 1 write down your given equation for this example you will use $\text{C}_3\text{H}_8 + 5\text{O}_2 \rightarrow 3\text{CO}_2 + 4\text{H}_2\text{O}$ this reaction occurs when propane C_3H_8 is burned in the presence of oxygen to produce water and carbon dioxide 2 write down the number of atoms per element

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