

## Fertilizers and Fertilization

1. Which fertilizer contains the most phosphorus?
  - a. 16-4-8
  - b. 15-0-15
  - c. 10-10-10
2. Without having the benefit of a soil test, which of these fertilizers would you recommend as a general purpose lawn and landscape fertilizer?
  - a. 16-4-8
  - b. 15-0-15
  - c. 10-10-10
3. If you were to select a 15-0-15 fertilizer for a lawn fertilizer, how much slow-release nitrogen would you want to see listed on the fertilizer label ideally?
  - a. 50%
  - b. 10.5%
  - c. 7.5%
4. You apply fertilizer to obtain a \_\_\_\_\_ plant response. Otherwise, there's no reason to fertilize.
5. What effect does lime have on soil?
6. If you are trying to grow plants, such as azaleas, that prefer a low soil pH in an area with a pH of 6.9, what is the best long-term solution to the problem?
  - a. Replace the azaleas with a plant that grow well with a pH of 6.9
  - b. Amend the soil with large amounts of organic matter
  - c. Add sulfur to the soil at planting time
  - d. a or b
7. Pink hydrangeas need a soil pH
  - a. Below 5.5
  - b. Above 6.0
  - c. Soil pH isn't important to hydrangeas
8. Cow manure contains \_\_\_\_\_ % nitrogen.
9. Coffee grounds contain \_\_\_\_\_ % nitrogen.
10. Wood ashes are high in which major nutrient \_\_\_\_\_, but \_\_\_\_\_ the soil pH because they are \_\_\_\_\_ in terms of soil acidity.
11. If your lawn fertilizer contains at least half of its nitrogen in slow-release form, then how many pounds of nitrogen (as contained in that fertilizer) would you apply per 1,000 square feet of lawn area?
12. If the lawn fertilizer doesn't contain at least half its nitrogen in slow-release form, then how many pounds of nitrogen (as contained in that fertilizer) would you apply per 1,000 square feet of lawn area?

13. Suppose you are using a 15-0-15 fertilizer with 7.5% slow-release nitrogen. How much of this fertilizer would you apply per 1,000 square feet of lawn?

14. Suppose you are using a 15-0-15 fertilizer with 7.5% slow-release nitrogen. How much of this fertilizer would you apply to a  $\frac{1}{4}$  acre lawn?

15. How much water do you apply to water in a fertilizer?

16. When fertilizing shrubs or trees, where do you apply the fertilizer?

17. When fertilizing a bed of young bedding plant, such as impatiens, how much 15-0-15 fertilizer would you apply to a bed 2 ft. by 5 ft.?

How would you distribute this fertilizer?