

2011 Nursery & Landscape CDE
Problem Solving Component

Team Number _____

Score _____

Each problem is worth 12.5 points ***Show all work for each problem***

FFA CDE Team Event (Landscape Scenario):

You are a landscape contractor that has received a job at a new home construction. The total lot size is 1 acre (43,560 sqft). The front and back yard are each $\frac{1}{2}$ acre. Answer the following questions pertaining to this job.

Problem 1:

You are going to lay Bermuda sod in the front yard of the home. The Bermuda sod cost \$110 per pallet. Each pallet covers 540 sqft. How many pallets of Bermuda sod will it take to sod the front yard?

- a. 40
- b. 41
- c. 20
- d. 45

Problem 1a:

Also what would be the sod cost to complete the project? (Note: you must purchase complete pallets)

Problem 2:

You are going to seed the back yard with a turf type tall fescue at a rate of 10 lbs per 1000 sqft. How many 50lb bags of seed will be needed to complete the job?

- a. 2
- b. 3
- c. 4
- d. 5

Problem 2a:

If each bag cost \$55.00 what is the total cost of seed needed?

Problem 3:

After seeding the back yard you want to apply 18-24-12 at 1 lb of nitrogen per 1000sqft. How many pounds of 18-24-12 will be needed to apply the recommended rate?

- a. 121 lbs
- b. 150 lbs
- c. 100 lbs
- d. 125 lbs

Problem 3a:

If a 50 lb bag of 18-24-12 cost \$14.00 how much will you spend to fertilize the fescue back yard?

FFA CDE Team Event (Nursery Scenario):

You are a container tree grower and want to grow *Magnolia grandiflora* 'Kay Parris' in a 5gal container.

Problem 4

How much production space (total sqft) is needed if you want to grow 300 plants and each plant needs 3 sqft of growing space?

- a. 300 sq ft
- b. 900 sq ft
- c. 1000 sq ft
- d. 3000 sq ft

Problem 4a

If you are going to apply Snapshot 2.5 TG at a rate of 3.5 lb/1000 sqft to this area (from calculation above) of Magnolias. How much would you apply?

- a. 3.15 lbs
- b. 3.5 lbs
- c. 1.05 lbs
- d. 10.5 lbs