



Duplex- Neighbor's house
 Duplex- Client's house

Hardscapes
 A = Wood deck- 2 steps down
 B= Pea Gravel Path
 C= Stained concrete platform w/ imbedded stepping stones
 D= Stepping stone path in sand
 E= Wood Bench
 F= Wood Bridge
 G= Fish pond & stone waterfall
 H= 6 ft. high wood fence

Scale 1/4 inch = 1 foot

- Plant Materials**
- P1 = Dusty Miller- *Senecio cineraria*
 - P2 = *Chrysanthemum* spp.
 - P3 = *Cotoneaster acutifolius*
 - P4 = Coral Bells-*Heuchera* spp.
 - P5 = Columbine-*Aquilegia* spp.
 - P6 = Daylily- *Hemerocallis* spp.
 - P7 = Bearded Iris-*Iris germanica*
 - P8 = Purple Coneflower-*Echinacea purpurea*
 - P9 = Japanese Barberry-*Berberis thunbergii*

- P10 = *Astilbe- Astilbe* spp
- P11 = PeeGee *Hydrangea*
- P12 =*Coleus- Coleus* spp.
- P13 = Wintercreeper *Euonymus*
- P14 = *Pachysandra terminalis*
- P15 = Flowering Crabapple-*Malus* spp.
- P16 = Japanese Tree Lilac-*Syringa reticulata*
- P17 = *Azalea- Rhododendron* spp.
- P18 = *Hosta- Hosta* spp.

2017 MN FFA State Nursery/Landscape CDE

Estimating materials for a given landscape plan

Determining volume and area for different plots

Practicums

2017 MN FFA Nursery Landscape CDE Practicums

Estimating Materials for a given area

Determining volume and area for different plots

Each question is worth 5 points (100 points total)

- The pond will have a surface area of 72 square feet. If the pond averages 2.5 feet deep, how many cubic yards of soil will have to be removed for the pond?
A. 6.67 cu. yds. B. 7.2 cu. yds. C. 8.0 cu. yds. D. 9.33 cu.yds
- According to the landscaping plan, how many stepping stones will be needed for the pathways & platform?
A. 63 B. 73 C. 83 D. 93
- There is 36 square feet of P10 area. If each astilbe covers 1.5 square feet, how many are needed?
A. 20 B. 24 C. 30 D.36
- There is 44 square feet of P8 area. If the coneflowers cover 2.25 square feet, how many are needed?
A. 20 B. 22 C. 24 D. 26
- There is a 15 square feet of area P12. If the plants cover 0.60 square feet. How many would be needed?
A. 25 coleus B. 25 daylillies C. 30 coleus D. 30 daylillies
- The entire area where the plants will be planted is 250 square feet. A fertilizer with a 10-20-10 analysis will be incorporated into the soil at a rate of 2 pounds per 100 square feet. How much fertilizer do you need for two applications?
A. 5 pounds B. 7.5 pounds C. 10 pounds D. 15 pounds
- The 250 square feet of plant area will be mulched with 3 inches of shredded bark. How many bags of mulch do you need if each bag has 3 cubic feet?
A. 11 bags B. 16 bags C. 21 bags D. 26 bags
- The bench in the upper left hand corner is made of:
A. stone B. concrete C. marble D. wood
- The plants P1 to P3 in the landscaping plan would be classified as:
A. sun plants B. water plants C. succulent plants D. total shade plants
- Cotoneaster acutifolius* (P3) cost \$17.88 each. How much would their cost be for this plan?
A. \$125.26 B. \$ 143.04 C. \$ 160.92 D. 178.80
- The Pee Gee Hydrangeas cost \$24.99 each. How much would their cost be for this plan?

A. \$24.99 B. \$ 49.98 C. \$74.97 D. \$99.96

12. The azaleas cost \$19.90 each. What would their cost be for this plan?

A. \$119.40 B. \$139.30 C. \$159.20 D. 179.10

13. How many trees are planned for this landscaping plan?

A. 1 B. 2 C. 3 D. 4

14. The actual deck has a dimension of 8 feet by 14 feet with 1- one foot wide step that is 15 feet long. How many square feet of decking must you buy if there is 10% waste?

A. 130 sq. ft. B. 140 sq. ft. C. 150 sq. ft. D. 160 sq. ft.

15. The homeowner would like 4 inches of pea gravel on the path (B) and under the 14' by 8' deck. If the area of the path (B) is 88 square feet. How many cubic feet of pea rock should you order?

A. 29.33 cu. ft. B. 37.33 cu. ft. C. 50.00 cu.ft. D. 66.67 cu. ft.

16. You will need 40 feet of the 6' high wood fence. How much will the fence cost at \$13.49 per linear foot.

A. \$539.60 B. \$ 579.60 C. \$ 599.60 D. \$ 619.60

17. The bridge is 3 feet wide by 6 feet long. If you use 2"x 6" treated pine boards with a spacing of ½ inch between the boards, how many six foot long treated pine boards would you need to buy for the bridge. Include 3 additional boards that would be needed to be used for stringers?

A. 6 B. 9 C. 12 D. 15

18-20. The landscape plan has the following total costs.

Plant Materials \$ 2,345.69

Hardscape Materials \$ 1,789.47

18. What would you charge for labor if it is 80% of the total cost of materials?

A. \$1,431.58 B. \$ 1,876.55 C. \$ 2,863.16 D. \$ 3,308.13

19. If it took you a total of 150 hours to complete the installation of the landscape plan, what was your return per hour for labor?

A. \$12.51 B. \$ 19.09 C. \$ 22.05 D. \$ 25.02

20. How much would the sales tax be on the materials if the rate is 6.5%

A. \$116.32 B. \$ 152.47 C. \$ 215.03 D. \$ 268.79

2017 MN FFA Nursery Landscape CDE Practicum Keys

Estimating Materials for a given area

Determining volume and area for different plots

- 1. A**
- 2. C**
- 3. B**
- 4. A**
- 5. A**
- 6. C**
- 7. C**
- 8. D**
- 9. A**
- 10. D**
- 11. C**
- 12. C**
- 13. B**
- 14. B**
- 15. D**
- 16. A**
- 17. B**
- 18. D**
- 19. C**
- 20. D**