

The National FFA Nursery/Landscape Career Development Event

Landscape Estimating 2018

This is a partial landscape plan for an exterior patio area for a local condo complex in Indianapolis, IN.

Please mark all answers carefully and properly on the separate answer sheet.

1. There are 4 benches shown in the plan. What are the dimensions of each bench?
 - A. 6' x 2'
 - B. 2.5' x 1'
 - C. 6' x 2.5'
 - D. None of the above
2. There are 8 large shade trees shown as canopy. Which of the following plants would work for this application?
 - A. Ginkgo biloba
 - B. Ilex crenata cv.
 - C. Myrica pensylvanica
 - D. Tsuga canadensis
3. Each of the large shade trees will have a root ball of 48". They will cost \$300.00 each. You estimate it will take 3 men 2 hours each to plant each tree. If you mark up the cost of each tree 1.7 times and charge \$42.00 per hour per man, how much will your price to purchase and plant the 8 trees be to the customer?
 - A. \$4080.00
 - B. \$8000.00
 - C. \$4416.00
 - D. \$6096.00
4. There are 2 areas marked for annuals. Which of the plants from the answers will grow as annual blooming plants?
 - A. Begonia semperflorens-cultorum
 - B. Cercis canadensis
 - C. Spiraea x bumalda
 - D. Vinca minor cv.

5. After planting the annuals, you will need to mulch the planting beds for moisture retention. For a depth of 3" in mulch how many cubic feet of mulch will you need for the 2 beds?

- A. 30 cu. ft. of mulch
- B. 51 cu. ft. of mulch
- C. 20 cu. ft. of mulch
- D. None of the above

6. Annuals cost \$8.00 per flat and you plan to use 10 flats for both beds. You estimate 2 hours to plant both beds and charge \$42.00 per hour. Using a 1.7 markup for the annuals, what will be your price for purchase and planting of the annuals?

- A. \$220.00
- B. \$160.00
- C. \$136.00
- D. \$244.00

7. You will need to excavate the outer square where the planned sculpture will be installed to a depth of 3'. How many cubic feet will need to be removed?

- A. 72 cubic feet
- B. 36 cubic feet
- C. 108 cubic feet
- D. 216 cubic feet'

8. There are 6 sets of tables and chairs. Each table, no matter size, costs you \$75.00 and each chair costs \$40.00. You plan to mark up each item 1.5 times your cost. How much will you charge for the 6 sets?

- A. \$2115.00
- B. \$2235.00
- C. \$2355.00
- D. \$2475.00

9. What is the square foot measurement of the area labeled as turf?

- A. 320 sq. ft.
- B. 480 sq. ft.
- C. 300 sq. ft.
- D. 160 sq. ft.

10. There are small shrubs to be used to separate the patio seating area and the planting beds and along the turf bed, labeled as A. These cost \$7.50 each and you plan to use a 1.7 mark up. You estimate it will take 15 minutes per plant to install and you will charge \$42.00 per hour. How much will your price for the purchase and installation of these shrubs be?

- A. \$1295.00
- B. \$765.00
- C. \$1325.00
- D. None of the above

11. Which plant from the answers shown would work for a small shrub?

- A. *Potentilla fruticosa* cv.
- B. *Cotoneaster dammeri*
- C. *Mahonia aquifolia* cv.
- D. All of the above

12. What is the square footage of the 2 areas of decking?

- A. 669 sq. ft.
- B. 971 sq. ft.
- C. 1031 sq. ft.
- D. None of the above

13. There is approximately 635 square feet of ground cover. Your source charges \$11.00 per square foot of ground cover. You estimate the planting will take 2 men 5 hours to plant this area and will cost you \$15.75 per hour. You will mark up plants 1.7 and labor 2.0 How much will you charge for the purchase and planting of the ground cover area?

- A. \$7305.00
- B. \$12189.50
- C. \$7142.50
- D. \$13289.50

14. What is the approximate circumference of each umbrella shown?

- A. 47 ft.
- B. 226 ft.
- C. 53 ft.
- D. None of the above

15. There are 4 areas of shrubs labeled as B. These plants are scheduled to be low growing evergreen plants. Which plant from the answers would be best for this planting?

- A. *Taxodium distichum*
- B. *Rosa* spp.
- C. *Cotoneaster divaricatus*
- D. None of the above

16. Each shrub labeled as B will cost you \$8.85 and you estimate it will take 10 minutes per plant for bed prep and another 10 minutes per plant for planting. Your labor costs are \$17.50 per hour. If you mark the plants up 1.7 and labor is marked up twice your cost, how much will you charge for purchase and planting of the shrub area marked as B?

- A. \$908.00
- B. \$710.00
- C. \$996.00
- D. None of the above

17. You will need to mulch the ground cover areas (area from #13) with shredded cypress. You plan to make the depth of mulch 3". Mulch costs you \$4.00 per 2 cubic feet bag. How much will the mulch cost you?

- A. \$476.25
- B. \$463.00
- C. \$317.50
- D. \$939.30

18. There is an area between one of the annual beds and the walk which will need rock to help with drainage and provide a space for salt run-off. This area will need to be excavated to a depth of 6". You estimate it will take 2 men 3 hours each for excavation and your labor costs are \$17.50 per hour. The waste will need to be removed and disposed of at a local recycle business which costs \$10.00 per cubic foot. How much will it cost to excavate and dispose of the waste?

- A. \$630.00
- B. \$420.00
- C. \$230.00
- D. \$396.00

19. You plan to use 3"-5" size rock for fill for the area described in question 18. It will cost \$35.00 per cubic foot. If you mark up the cost of the rock 1.3 times, how much will you price the purchase of the rock?

- A. \$1102.50
- B. \$1236.00
- C. \$1653.75
- D. \$1433.25

20. What is the square foot measurement of the area marked as patio seating?

- A. 1597.50 sq. ft.
- B. 1867.50 sq. ft.
- C. 1521.00 sq. ft.
- D. 1275.00 sq. ft.