

National FFA Nursery/Landscape Career Development Event

Landscape Estimating 2018

Answer Key

Calculations illustrate possible solution methods – others may also apply.

1. C – By scale, 6' long x 2.5' wide
2. A – Ginkgo biloba is a large shade tree.
3. D – 8 trees @ \$300.00 x 1.7 = \$4080.00
3 men x 2 hours each for each tree = 48 hours @ \$42.00 = \$2016.00
Total = \$4080.00 + 2016 = \$6096.00
4. A – Begonia semperflorens-cultorum is an annual flower in Indiana.
5. B – Bed square footages = 20'x6' + 15'x5' + 3.5' x5'/2 = 203.75 sq. ft. x .25 (3 inches deep) = 51 cu. ft. of mulch.
6. A – 10 flats @ \$8.00 each, annuals cost \$80.00 x 1.7 = \$136.00
2 hours @ \$42.00 = \$84.00
\$136.00 + \$84.00 = \$220.00
7. C - By scale size of area = 6'x6' x 3' deep = 108 cu. ft.
8. B – 6 tables @ \$75.00 = \$450.00 x 1.5 = \$675.00
26 chairs @ \$40.00 = \$1040.00 x 1.5 = \$1560.00
Total = \$675.00 + \$1560.00 = \$2235.00
9. D - 20' x 16' divided by 2 = 160 sq. ft.
10. D – 60 shrubs @ \$7.50 cost = \$450.00 x 1.7 = \$765.00
60 x .25 hr. = 15 hours @ \$42.00 = \$630.00
Total = \$1395.00, answer not listed, none of the above
11. D – All plants listed are small shrubs
12. A – By scale, square footages = 28'x10' + 17'x10' + 21'x22'/2=669 sq. ft.
13. B – 635 sq. ft. x \$11.00 = \$6985.00 x 1.7 = \$11874.50
2 men 5 hours each = 10 hrs. x \$15.75 = \$157.50 x 2 = \$315.00
Total = \$11874.50 + \$315.00 = \$12189.50
14. C – By scale - 17' diameter, formula for circumference = 2 x 3.14 x radius = 53.85 ft.
15. D – None of the plants listed are low growing evergreens.

16. A – 34 shrubs @ 8.85 = \$300.90 x 1.7 = \$511.53
 20 minutes per shrub = 11.3 hrs. @ \$17.50 = \$198.33 x 2 = \$396.55
 Total = \$511.53 + \$396.55 = \$908.08
17. C – 635 sq. ft. from #13 x .25 (3" deep) = 158.75 cu. ft./2 cu. ft. per bag = 79.38 bags
 79.38 bags @ \$4.00 per bag cost = \$317.50
18. B – Area measures 21'x3' = 63 sq. ft. x .5 (6 in. deep) = 31.5 cu. ft. to remove @
 \$10.00/cu. ft. disposal = \$315.00
 2 men x 3 hrs. = 6 hrs. @ \$17.50 = \$105.00 cost
 Total cost = \$315.00 + \$105.00 = \$420.00
19. D – 31.5 cu. ft. (from #18) @ \$35.00/ = \$1102.50 x 1.3 = \$1433.25
20. C- square footages – 25'x23' + 23'x23' + 23'x23' – 112 = 1521 sq. ft.