

National FFA Nursery/Landscape Career Development Event

Landscape Estimating 2014

Answer Key

Calculations illustrate possible solution methods – others may also apply.

1. A - by scale – 2' square
2. D – by scale – 18' long
3. C – by scale – 14'
4. A – total of 8 trees, ½ hour per tree, total of 4 hours with 3 guys = 12 hours @ \$25.00 per hour = \$300.00
5. B - \$125.00 + 10% (\$12.50) = \$137.50 cost x 1.3 = \$178.75
6. D – Thuja occidentalis
7. C – 36 square feet at 18" deep = 54 cubic feet (36 x 1.5). 54 divided by 2 = 27 @ \$12.00 = \$324.00, or 54 cubic feet x \$6.00/ cubic foot = \$324.00
8. C – 2 guys at 45 minutes = 1.5 hours
9. B – Retail Price of \$4.25 divided by cost of \$2.50 = 1.7 markup
10. D – Cornus florida
11. A – by count 22
12. C – 4' diameter, using area for circle 2' radius squared x pi (3.14) = 12.56. 3" deep = .25 ft. 12.56 x .25 = 3.14
13. D – 8 trees
Wrap = \$1.30 x 8 = \$10.40
Wrap labor = 5 minutes per tree = 40 minutes, 2/3 of an hour @ \$25.00 = \$16.50
Guying materials = \$2.50 x 8 = \$20.00
Guying labor = 15 minutes per tree (8) = 2 hours total @ \$25.00 = \$50.00
Total 10.40 + 16.50 + 20.00 + 50.00 = \$96.90
14. A – Echinace purpurea
15. A – by scale 4' x 12'
16. C – 12 pavers at 1' square @ \$4.00 = \$48.00, 18 pavers at 1' x 2' @ \$8.00 = \$144.00. Total = \$192.00
17. B – 48 square feet @ \$25.00/ square foot = \$1200.00
18. D – by count – 8
19. C - \$21,297.00 x 1.3 markup = \$27,686.10, x 10% (\$2,768.61) = \$30,454.71
20. A – 4 guys for 6 days at 8 hours per day = 192 hours total @ \$30.00/ hour = \$5,760.00