



NATIONAL FFA NURSERY/LANDSCAPE CAREER DEVELOPMENT EVENT

LANDSCAPE ESTIMATING 2023

Answer Key

Calculations illustrate possible solution methods – others may also apply.

1. C $437 \text{ sq. ft.} - 97' \times 4.5'$
2. A $102 \text{ cu. ft.} - 40.5' \times 4' = 162 \text{ sq. ft.} + 10.5' \times 4' = 42 \text{ sq. ft.}, 162 + 42 = 204 \text{ sq. ft. @ } 6'' \text{ deep} = 102 \text{ cu. ft.}$
3. C Cornus florida
4. B $118 \text{ cu. ft. } 5' \text{ diameter } (2.5 \times 2.5 \times 3.14) = 19.63 \text{ sq. ft.} \times 3 \text{ ft. deep} = 58.88 \text{ cu. ft. per tree, } 2 \text{ trees} = 118 \text{ cu. ft.}$
5. B $\$620.40 - \$188.00 + 10\% = \$206.80 \times 1.5 = \$310.20 \text{ each, } 2 \text{ trees} = \620.40
6. D $\$624.00 - 2 \text{ guys @ } 3 \text{ hours per tree} = 6 \text{ hours, } 2 \text{ trees} = 12 \text{ hours @ } \$52.00 = \$624.00$
7. A $\$340.20 - \text{containers are } 3' \text{ cubed} = 27 \text{ cu. ft. per container, } 3 \text{ containers} = 81 \text{ cu. ft., divided by } 2 \text{ (bags are } 2 \text{ cu. ft. each)} = 40.5 \text{ bags @ } \$7.00 = \$283.50 \times 1.2 \text{ markup} = \340.20
8. D $\$297.00 - 8 \text{ plants @ } \$24.75 \text{ each} = \$198.00 \times 1.5 = \297.00
9. C $\$586.65 - 15 \text{ plants @ discounted price of } \$18.65 = \$279.75 \text{ times } 1.4 \text{ markup} = \$391.65. \text{ Labor} = 15 \text{ plants at } .25 \text{ hours} = 3.75 \text{ hours @ } \$52.00 = \$195.00. \$391.65 + \$195.00 = \586.65
10. A $\$433.80 - 29 \text{ plants @ } \$8.00 = \$232.00 + 10\% \text{ shipping} = \$255.20 \times 1.7 \text{ markup} = \433.80