

National FFA Nursery/Landscape Career Development Event
Landscape Estimating 2013
Answer Key

Calculations illustrate possible solution methods – others may also apply.

1. (C) Scale $1/4" = 1'$, scales at $1/4" = 12"$
2. (A) or (c) Scale measurements of $14' \times 4' = 56$ sq. ft.
3. (C) Scale measures at $1'' = 4'$
4. (B) $2.25' \times 4' \times 1.5' = 13.5$ cu. ft. divided by 2 (price is for 2 cubic feet) = 6.75
 $\times \$12.00 = \$81.00 + \$25.00$ labor = \$106.00
5. (D) 7 sedum @ \$7.00 each = \$49.00 + labor (1/2 hour at \$25.00 per hour = \$12.50) = \$61.50
6. (D) 32 Liriope plants @ \$3.50 = \$112.00
7. (B) $23' \times 4' (92) + 19' \times 4' (76) = 168$ sq. ft. $\times .25$ (3" deep) = 42 cu. ft. @
\$27.00 per cubic yard = \$1.00 per cu. ft. = \$42.00
8. (A) Cornus florida
9. (A) Pinus mugo
10. (D) Path is roughly 14' long by 1' wide = 14 sq. ft. $\times .33$ (4 inches deep) = 4.62 cu. ft. @ \$10.00 per cubic foot = \$46.20. $4.62 \times .25$ (15 minutes per cubic foot labor) = 1.15 hours at \$25.00 per hour = \$28.88. $\$46.20 + \$28.88 = \$75.08 - \75.00 .
11. (B) $3.5' \times 2' (7 \text{ sq. ft.}) + 3' \times 3' (9 \text{ sq. ft.}) = 16$ sq. ft. @ \$10.00 = \$160.00
13. (C) Euonymus fortunei
14. (A) $48' - 3.5' (44.5') \times 2'$ wide = 89 sq. ft.
15. (C) 5 plants at \$22.00 = \$110.00, labor = 5 plants at 30 minutes each = 2.5 hours at \$25.00 per hour = \$62.50. $\$110.00 + \$62.50 = \$172.50$
16. (D) All the plants listed fit the description
17. (B) or (D) $12 + 12 = 24$

18. (A) Wrap materials (\$1.30) + Guy materials (\$2.50) + Mulch (\$3.00) = \$6.80 materials.

Wrap labor = 5 minutes

Guying and staking labor = 15 minutes

Mulching labor = 10 minutes

Total time = 30 minutes @ \$25.00 per hour = \$12.50

\$6.80 + \$12.50 = \$19.30

19. (C) OR (D) Spa is 8' x 8' (64 sq. ft.) x 2.25' deep (2'3" = 2.25) = 144 cu. ft. divided by 0.134 = 1075 gallons

20. (A) Cost of plants = \$595.00 x 1.75 markup = \$1041.25 + 10% of marked up price (\$1041.25 x .1 = \$104.13) = \$1041.25 + \$104.13 = \$1145.38