

National FFA Nursery/Landscape Career Development Event

Landscape Estimating 2015

Answer Key

Calculations illustrate possible solution methods – others may also apply.

1. C – by scale 4' diameter
2. A - 3 sections measured as – $20' \times 8' = 160$, $14' \times 4' = 63$, $8.5' \times 9' = 76.5$
 $160 + 63 + 76.5 = 299.5$ sq. ft.
3. B – outside linear measurements = $21.25' + 9' + 6' + 4.5' + 6.25' + 9' + 9.25' + 23' = 88.5'$. Or $21.25' \times 2 = 42.5' + 23' \times 2 = 46'$. $42.5' + 46' = 88.5'$
4. D – *Juniperus chinensis* cv. is the only evergreen shrub on the list
5. B – by scale $15.5' \times 2.25'$
6. A – *Gaillardia aristata* cv. and *Hemeroallis* spp. are the 2 perennials on the list
7. C – 2 sections measured as – $18.5' \times 8' = 148$, $12' \times 5.5' = 66$. $148 + 66 = 214$ square feet.
Or $13.5' \times 12' = 162$, $6.5' \times 8' = 52$, $162 + 52 = 214$ square feet
8. A – $2 \times 6''$ steps = 12''
9. C – by scale – 2.5'
10. B - $\$7.50 \times 6$ plants = $\$45.00 \times 1.7 = \76.50
11. D – All plants listed would be canopy trees
12. C – 3 men @ 2.5 hours each = 7.5 hours @ $\$35.00 = \262.50
13. A - $\$135.00 \times 1.1$ (10% shipping) = $\$148.50 \times 1.7$ markup = $\$252.45$
14. B – Approximately 2 sections, part of area is shown as wider, $11' \times 4' = 44$,
 $12' \times 2.5' = 30$. $44 + 30 = 75$ square feet
15. D – only *Vinca minor* is a groundcover
16. B - 2 sections – $5' \times 17' = 85$, $10' \times 32' = 320$, $85 + 320 = 405$ square feet at
3" deep = $405 \times .25$ (3 inches deep) = 101.25 cubic feet
Or – $27.5' \times 5' = 137.5$, $26.75' \times 10' = 267.5$, $137.5 + 267.5 = 405$ sq. ft.
 $405 \times .25$ (3 inches deep) = 101.25 cubic feet
17. D – 2 guys x 4 hours = 8 total hours @ $\$35.00/\text{hour} = \280.00 . Not listed in answers.
18. D – *Picea abies* – Norway Spruce is the only evergreen tree
19. D – 5 plants @ $\$22.00 = \110.00×1.7 markup = $\$187.00$
2 guys, $\frac{1}{2}$ hour per plant = 1 hour per plant = 5 total hours @ $\$35.00/\text{hr}$.
= $\$175.00$. $\$187.00 + \$175.00 = \$362.00$
20. C – *Pyracantha coccinea* cv.