

FFA 2018 Team Activity Answers (450 points)

All questions worth 1 point unless otherwise noted.

Total points possible = 100, so multiply raw score times 4.5 for final score

\*\*\*internal note\*\*\* Volumes: 5% range from correct amount

\*\*\*internal note\*\*\* Distances: total= $\pm 3'$  around correct, then ranges 5', 5'

\*\*\*internal note\*\*\* Azimuths: total= $\pm 2^\circ$  around correct, then ranges  $2^\circ$  each

- A
  - 1. Hickory (2pt)
  - 2. 15" (14.9")
  - 3. 2.0 logs (39')
  - 4. 104: 88-94 (1pt), 95-99 (2pts), 100-109 (3pts), 110-114 (2pts), 115-120 (1pt)
- B
  - 5. 258 degrees: 252-253 (1pt), 254-255 (2pts), 256-260 (3pts), 261-262 (2pts), 263-264 (1pt)
  - 6. 85 ft: 72-76 (1pt), 77-81 (2pts), 82-88 (3pts), 89-93 (2pts), 94-98 (1pt)
- C
  - 7. White Oak (2pt)
  - 8. 26" (25.8")
  - 9. 3.0 logs (51')
  - 10. 663: 564-597 (1pt), 598-630 (2pts), 631-696 (3pts), 697-729 (2pts), 730-762 (1pt)
- D
  - 11. Black Oak (2pt)
  - 12. 23" (22.9")
  - 13. 4.0 logs (67')
  - 14. 564: 479-508 (1pt), 509-536 (2pts), 537-592 (3pts), 593-620 (2pts), 621-649 (1pt)
- E
  - 15. 240 degrees: 234-235 (1pt), 236-237 (2pts), 238-242 (3pts), 243-244 (2pts), 245-246 (1pt)
  - 16. 85 ft: 72-76 (1pt), 77-81 (2pts), 82-88 (3pts), 89-93 (2pts), 94-98 (1pt)
  - 17. 202 degrees: 196-197 (1pt), 198-199 (2pts), 200-204 (3pts), 205-206 (2pts), 207-208 (1pt)
  - 18. 49 ft: 36-40 (1pt), 41-45 (2pts), 46-52 (3pts), 53-57 (2pts), 58-62 (1pt)
- F
  - 19. prism or 10 factor prism
  - 20. 90 BA or sq. ft.: 80 (1pt), 90 (2pts), 100 (1pt)
- G
  - 21. Beech (2pt)
  - 22. shade tolerant
- H
  - 23. clinometer (2pt)
  - 24. slope
  - 25. height
  - 26. 17% (16-18% acceptable)
- I
  - 27. Beech (2pt)
  - 28. Rott or butt rot (2pt)

- J      29. Sugar Maple (2pt)  
30. 14" (14.3)  
31. 2.0 logs (diameter limit...10" at 32')  
32. 82: 70-74 (1pt), 75-78 (2pts), 79-86 (3pts), 87-90 (2pts), 91-94 (1pt)
- K      33. Ash (2pt)  
34. Borers or Emerald Ash Borer (EAB) (2pt)  
35. Alive
- L      36. Yellow Poplar (2pt)  
37. 21" (20.6")  
38. 4.0 logs (69')  
39. 436: 371-392 (1pt), 393-414 (2pts), 415-458 (3pts), 459-480 (2pts), 481-501 (1pt)
- M      40. Sycamore (2pt)  
41. 15" (15.1")
- N      42. 1:24,000  
43. 10 ft  
44. North  
45. 850 ft  
46. 630 ft
- O      47. Drip torch (3pt)  
48. D-tape (3pt)  
49. Pulaski (3pt)

Business Problem

55. \$11,250  
56. \$3,750  
57. \$1,000  
58. \$3,200  
59. \$29,850  
60. \$13,850 (5pts)