



2023 NATIONAL FORESTRY CDE

TEAM ACTIVITY KEY (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* each

- A
 - 1. Hickory (2pt)
 - 2. 15"
 - 3. 2.0 logs
 - 4. **104**: 94-98 (1pt), 99-109 (2pts), 110-114 (1pt)
- B
 - 5. Black Cherry (2pt)
 - 6. 8"
- C
 - 7. Ash (2pt)
 - 8. 10" or 11"
 - 9. EAB or Emerald Ash Borer
- D
 - 10. White Oak (2pt)
 - 11. 23"
 - 12. 2.0 logs
 - 13. **356**: 320-337 (1pt), 338-374 (2pts), 375-392 (1pt)
- E
 - 14. Red Oak (2pt)
 - 15. 27"
 - 16. 3.0 logs
 - 17. **735**: 661-697 (1pt), 698-772 (2pts), 773-809 (1pt)
- F
 - 18. 316 degrees: 312-313 (1pt), 314-318 (2pts), 319-320 (1pt)
 - 19. **79 ft**: 66-70 (1pt), 71-75 (2pts), 76-82 (3pts), 83-87 (2pts), 88-92 (1pt)
 - 20. **220 degrees**: 216-217 (1pt), 218-222 (2pts), 223-224 (1pt)
 - 21. **96 ft**: 83-87 (1pt), 88-92 (2pts), 93-99 (3pts), 100-104 (2pts), 105-109 (1pt)
- G
 - 22. Yellow (Tulip) Poplar (2pt)
 - 23. 26"
 - 24. 3.0 logs
 - 25. **663**: 597-629 (1pt), 630-696 (2pts), 697-729 (1pt)

- H 26. American Beech (2pt)
27. 20"
28. 2.0 logs
29. **242:** 206-217 (1pt), 218-229 (2pts), 230-254 (3pts), 255-266 (2pts), 267-278 (1pt)
- I 30. prism or 10 factor prism
31. 120 BA or sq. ft.
- J 32. White Oak (2pt)
33. Butt or Heart Rott
- K 34. 157 degrees: 153-154 (1pt), 155-159 (2pts), 160-161 (1pt)
35. **68 ft:** 55-59 (1pt), 60-64 (2pts), 65-71 (3pts), 72-76 (2pts), 77-81 (1pt)
36. **49 degrees:** 45-46 (1pt), 47-51 (2pts), 52-53 (1pt)
37. **61 ft:** 48-52 (1pt), 53-57 (2pts), 58-64 (3pts), 65-69 (2pts), 70-74 (1pt)
- L 38. Hickory (2pt)
39. 20"
40. 2.5 logs
41. **282:** 254-267 (1pt), 268-296 (2pts), 297-310 (1pt)
- M 42. Chestnut Oak (2pt)
43. 12"
44. 1.0 log
45. **31:** 27-28 (1pt), 29-33 (2pts), 34-35 (1pt)
- N 46. Sugar Maple (2pt)
47. 15" or 16"
48. 2.0 logs
- O 49. (American) Sycamore
50. 16"
- P 51. clinometer (2pt)
52. slope
53. height
54. 19% (18-20%acceptable)
- Q 55. Neosho East (Quadrangle)
56. 1:24,000
57. 20 ft

58. North

59. North East quarter

Business Problem

60. \$16,000

61. \$8,000

62. \$1,000

63. \$5,000

64. \$29750

65. -\$250 (3pts)