

Phinizy Center for Water Sciences

Area of a Tree Answer Sheet

Names: _____

Area of Tree 1

- Measure circumference in inches:** _____ **70** in. circumference
(at DBH, 4.5 ft)
- Calculate diameter of tree:** _____ **22.29** in. diameter
Diameter = circumference / π
- Calculate radius of tree:** _____ **11.15** in. radius
Radius = diameter / 2
- Convert radius inches to feet:** _____ **0.93** ft. radius
Radius (ft) = radius (in) / 12
- Calculate area of tree:** _____ **2.71** ft² area
Area = $\pi \times \text{radius}^2$ (πr^2)

Area of Tree 2

- Measure circumference in inches:** _____ **37** in. circumference
(at DBH, 4.5 ft)
- Calculate diameter of tree:** _____ **11.78** in. diameter
Diameter = circumference / π
- Calculate radius of tree:** _____ **5.89** in. radius
Radius = diameter / 2
- Convert radius inches to feet:** _____ **0.49** ft. radius
Radius (ft) = radius (in) / 12
- Calculate area of tree:** _____ **0.76** ft² area
Area = $\pi \times \text{radius}^2$ (πr^2)