

The DIAMETER TAPE determines the diameter of trees

MATERIALS: A tapelike material, or two pieces of masking tape back to back

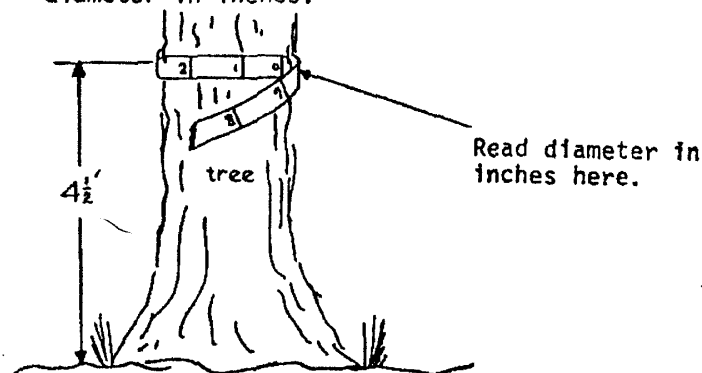
CONSTRUCTION: Mark the tape off in $3\frac{1}{7}$ inch sections, as many as you wish

Why $3\frac{1}{7}$ inch sections? It is found if you wind paper around a stick 1 inch in diameter, this paper is $3\frac{1}{7}$ inches long (try it). So every 1 inch diameter of a circle is equal to $3\frac{1}{7}$ inches circumference.

This $3\frac{1}{7}$ " is a constant, it never changes, and is usually written with the greek letter π (pi) usually pronounced like "pie", in the formula $C = \pi D$

Where:
 C = Circumference
 $\pi = 3\frac{1}{7}$
 D = Diameter

Wrap the tape around the tree trunk $4\frac{1}{2}$ ' above the ground. Where the tape meets, read the diameter in inches.



Pennsylvania Outdoor Education Resources Center
 112 Recreation Building
 University Park, Pennsylvania 16802

Directions for making a cruising stick:

Make a full size photocopy of the diagram below. Do not reduce or enlarge the cruising stick or you will receive inaccurate results. The stick is composed of two parts, each divided into three sections below. Cut out each

section along the bold lines. Tape the matching ends labelled "X" and "Y" together to form the Height Scale, and match ends "A" and "B" to form the Diameter Scale. Glue the assembled scales to opposite sides of a narrow wooden stick at least 26 inches long, such as a yardstick. See Chapter 1 for illustration and directions for use.

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<p>NUMBER OF 16-FOOT LOGS</p> <p>STEP OFF 66 FEET, PLUMB STICK 25" FROM EYE. READ NUMBER OF LOGS → 1</p> <p>LINE UP THIS END WITH STUMP HEIGHT.</p>	
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3	2	4	2	5	2	6	2	7	2	8	2	9	3	0	3	1	3	2	3	3	4	3	5	3	6	3	7	3	8	3	9	4	0
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0	1	1	2	1	3	1	4	1	5	1	6	1	7	1	8	1	9	2	0	2	1	2	2
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<p>DIAMETER OF TREE (INCHES)</p> <p>HOLD STICK LEVEL 25 INCHES FROM EYES AGAINST TREE AT HEIGHT OF 4 1/2 FEET</p>	1
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