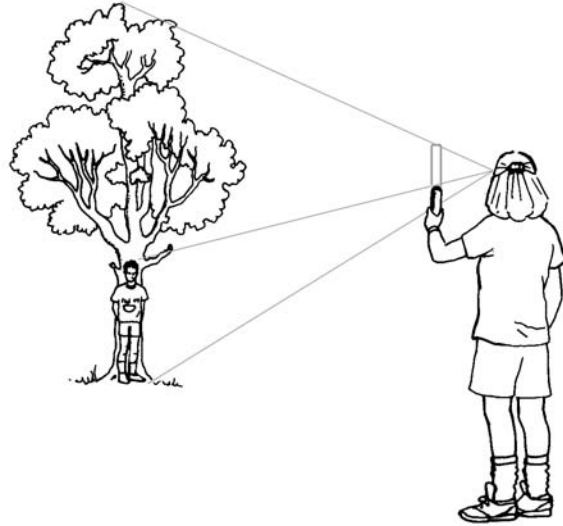


ESTIMATING HEIGHT

Artist's Method

At the base of the object to be measured, place an article (such as a staff or person) of known height. Stand well away from the object, then, holding a pencil or twig at arm's length, arrange for the tip of the pencil to be in line with the top of the staff or person and the thumb to mark the ground level. Next, estimate how many times this distance will go into the height of the object, and multiply by the height of the article.



Lumberman's Method

Stand well away from the object and hold a pencil or twig at arm's length from your body. Arrange the twig so its tip is in line with the top of the tree (or object) being measured. Arrange the pencil or twig so its tip is in line with the top of the tree (or object) being measured, and move your thumb up or down until it's in line with the base. Now swing the twig through a right angle (90°), keeping your arm steady, so that your thumb remains level with the base of the tree (or object). Observe the point on the ground at right angles to the tree (or object) where the tip of the pencil or twig now appears to rest. The approximate height of the tree (or object), your estimate, can be measured by pacing the distance from the base of the tree (or object) to this point.

