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1. Since the total height of 15 represents the 90 degree quadrant, the factor for each height is 6

$$6 \times (5.5, 8.5, 9.5, 10.5, 11.5, 12.5, 15) = (33, 51, 57, 63, 69, 75, 90 \text{ degrees})$$

2.

$13/15 = 0.8667$	$\cos 33 = 0.8387$
$10/15 = 0.667$	$\cos 51 = 0.6293$
$8.5/15 = 0.5667$	$\cos 57 = 0.5446$
$7/15 = 0.4667$	$\cos 63 = 0.4540$
$5.5/15 = 0.3667$	$\cos 69 = 0.3584$
$4/15 = 0.2667$	$\cos 75 = 0.2588$

This reveals a remarkable way for the ancients to estimate a trigonometric function using simple fractions.