

## Finding the Height of a Lamp Pole Without Trigonometry -- Solution

The answers will be unique for the height of the object and can be found through either of two direct proportions:

$$\frac{\text{Height (1)}}{\text{Shadow (1)}} = \frac{\text{Height (2)}}{\text{Shadow (2)}} \quad \text{or} \quad \frac{\text{Distance (1)}}{\text{Height (1)}} = \frac{\text{Distance (2)}}{\text{Height (2)}}$$