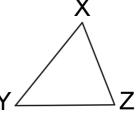
The Scale Factor



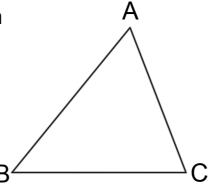
The scale factor is the ratio of corresponding sides in similar triangles.



If $\triangle XYZ \sim \triangle ABC$, and n is the scale factor, then

$$n = \frac{AB}{XY}$$

* we often write the scale factor using the larger side over the smaller side

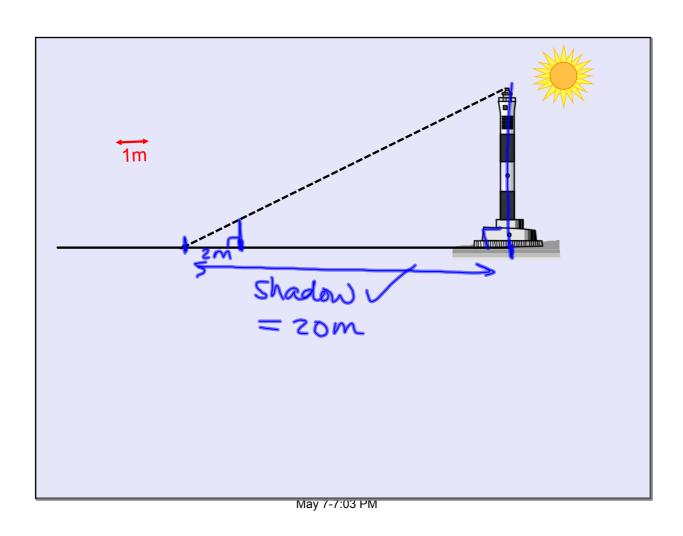


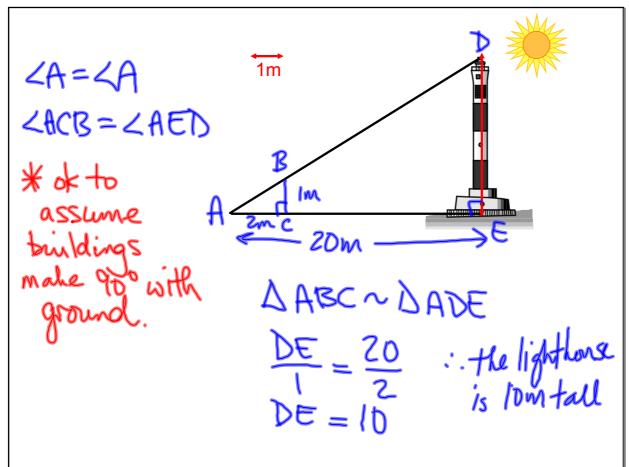
May 9 - 6:45 PM

02 Scale Factor - GSP.gsp

Ex.1 Suppose you are asked to find the height of a building (or a lighthouse) using only a metre stick and a piece of chalk. How would you do it?

May 7-7:03 PM



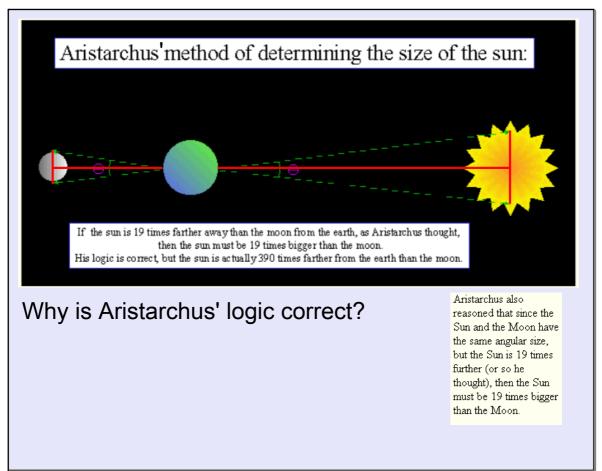


May 7-7:03 PM

Similar triangles and the scale factor can be used to determine distances that are difficult (or impossible) to measure directly.

For example, distances across rivers and canyons can be measured this way, as well as distances in outer space.

HW: p. 475 # 6de, 7 - 13, 15



May 9 - 1:17 PM

HW: p. 475 # 6de, 7 - 13, 15

MPM 2D (L39- Scale Factor (GSP)).gsp 02 Scale Factor - GSP.gsp