

Moon Lab

Find an appropriate object that just covers the moon when held with arm extended, or tied to a meter stick, etc. Measure the diameter of the object. Measure the distance from the object to your eye. The ratio of the two is the same as the ratio of the diameter of the moon, to the distance to the moon.

$$\frac{\text{diameter of object}}{\text{distance to object}} = \frac{\text{diameter of moon}}{\text{distance to moon}}$$



Try this for yourself and determine the ratio above. Look up the distance to the moon and see what diameter for the moon you get by using your ratio.