

Number of Stars in the Sky Lab

Name:

This activity requires a dark spot and a cardboard bathroom tissue core (cores from paper towel rolls will not work). On a clear evening go outside and allow about 8 to 10 minutes for your eyes to adapt to the dark. Then, while holding the core to your eye, count the number of stars visible through the core. Repeat this 5 times while pointing the core at different parts of the sky.

1. In the space below list all of your star count measurements. Also give the date, time and location for your data.

Date of Observation:

Location:

Time of Observation:

Count

2. Calculate the average star count from your data. Box the final answer.

3. A bathroom tissue core limits your view to about $1/60$ of the night sky. Calculate the number of stars that can be seen in the sky by assuming that your average count is $1/60$ part of the entire visible sky. Box your answer.

Grading

Format, complete, neat 5 pt.

Data 10 pt.

Calculations 10 pt.