

AST101 Take-home #1 — Navigation Introduction

Due at beginning of class on Tuesday, September 18.

Name: _____

After reading *Secrets of Ancient Navigation* (<http://www.pbs.org/wgbh/nova/longitude/secrets.html>), answer the questions below. Be brief, one or two sentences maximum, in your own words.

1. Describe one of the early methods (before the compass or sextant was invented) that ancient sailors used to navigate, once they were beyond the sight of land:
2. Who is given credit for first placing latitude and longitude lines on maps? During what time period?
3. Why did it take the magnetic compass a long time to come into widespread use among European seamen?
4. What measurement was a *Kamal* used for? By whom?
5. Why did the cross-staff fall out of favor for measuring the altitude of the sun?
6. How was the problem of finding longitude finally solved? By whom?