

Longitude Clues Worksheet 2009 Example One

Mystery Class #3	Name:
1. FACT: Greenwich, England is at 0 degrees longitude. Mark the location of Greenwich, England on the map.	
2. FACT: The sunrise time is 06:03 A.M. (UT) in Greenwich, England on the spring equinox (March 20, 2009). Write the sunrise time beside 0 degrees longitude on the map.	
3. The sunrise time is <u>22:02 (UT) on 3/19 (date)</u> at this Mystery Class location on the spring equinox. (See Equinox Sunrise Table.)	
sunrise time at Greenwich, Englan (CAUTION! Remember that hours and minut	res are not in decimal form, and pay attention to root be a simple subtraction or addition equation
5. FACT: The Earth turns to the east as it spins. The Earth will spin for <u>481</u> minutes between the sunrise time at Greenwich and the sunrise time at this Mystery Class location. (Clue: convert your answer in #4 above to minutes.)	
6. FACT: The Earth spins 1 degree longitude every 4 minutes. I estimate the longitude of this Mystery Class to be <u>120.25</u> degrees away from Greenwich.	

7. This Mystery Class is <u>East</u> (East or West) of Greenwich.