Longitude Clues Worksheet 2017 Using Sunrise Clues to Estimate Longitude



Mystery Class #:		Longitude
 1. Locate Greenwich, England on the map. Greenwich, England is on the prime meridian at 0 degrees longitude. On the morning of March 20, 2017, the sun will rise in Greenwich at 6:02 UT. Mark the location of Greenwich on the map. Write the time of sunrise at Greenwich beside the prime meridian. 		
2. Record sunrise time fo Look up the sunrise time fo table. Remember: Universa	r this Mystery Class on th	
Place of Sunrise	Greenwich, England	Mystery Class #:
Time of Sunrise (UT)	6:02 March 20	
3. Is the Mystery Class east or west of Greenwich? The Earth spins to the east. A location with sunrise time before Greenwich is east of Greenwich; a location with sunrise after Greenwich is west of Greenwich. Sunrise at this Mystery Class occurred (before/after) sunrise at Greenwich, so I know this Mystery Class is (east/west) of Greenwich.		
4. How much time between sunrise at Greenwich and the Mystery site? The length of time between sunrise at this Mystery Class and sunrise at Greenwich is hours and minutes. (Caution: This may not be a simple subtraction or addition equation. Pay attention to the date of the sunrise time too.)		
5. For how many minute : The Earth will spin for Class location and the time answer in #4 above to minute.	minutes between the time the sun rises at Greenwie	e sun rises at this Mystery
6. How many degrees longitude from Greenwich? The Earth spins 1 degree longitude every 4 minutes. I estimate the longitude of this Mystery Class to be: degrees (east/west) of Greenwich.		