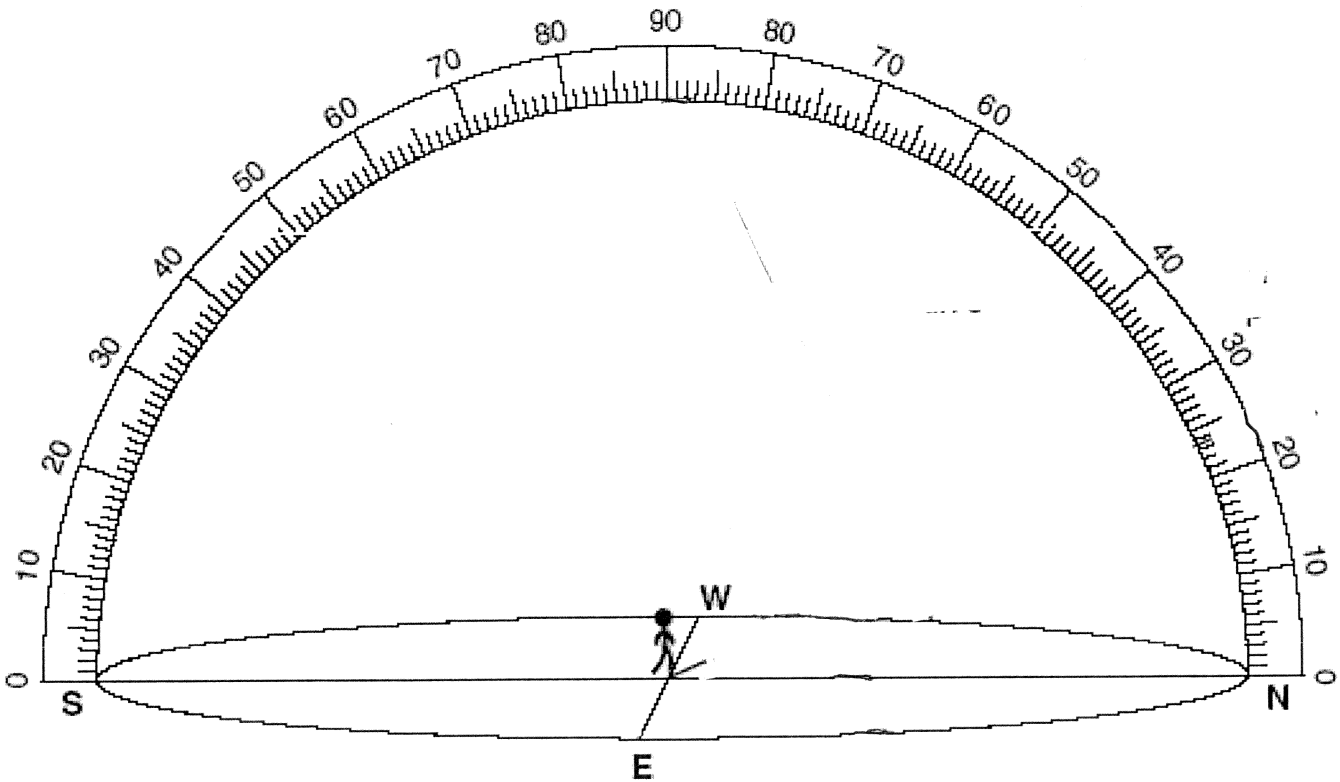


Location = 45° N



1. Draw in the correct location of Polaris
2. Draw the correct path of the sun for the following dates

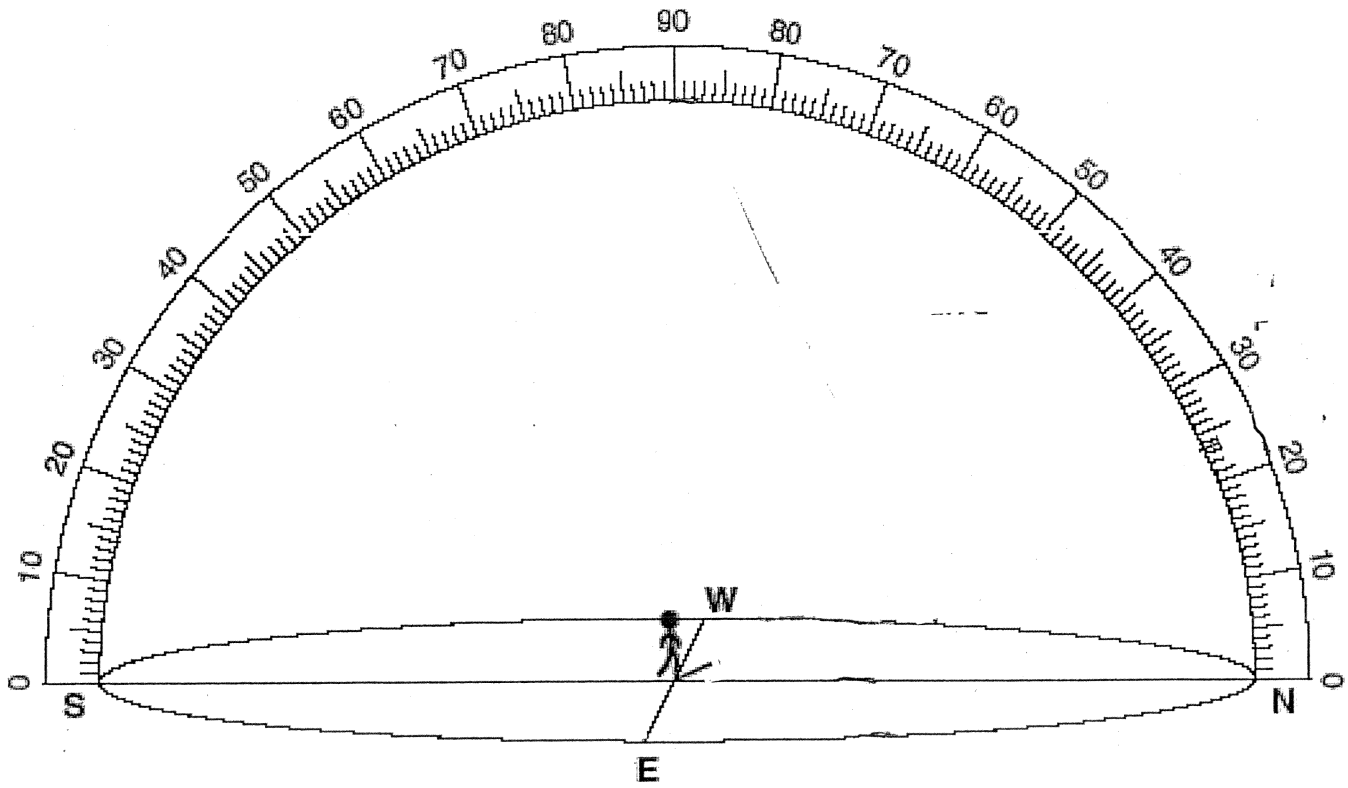
June 21<sup>st</sup> (Sun's altitude \_\_\_\_\_, Sun Rises \_\_\_\_\_, Sets \_\_\_\_\_)

December 21<sup>st</sup> (Sun's altitude \_\_\_\_\_, Sun Rises \_\_\_\_\_, Sets \_\_\_\_\_)

March 23<sup>rd</sup>/Sept 23<sup>rd</sup> (Sun's altitude \_\_\_\_\_, Sun Rises \_\_\_\_\_, Sets \_\_\_\_\_)

3. On which day of the year will the noon time sun cast the shortest shadow?
4. Which city in New York is this person located at?

Location =



Location =

