

Noontime Around the World Discussion Questions



1. What happens to the shadow on your sundial as you rotate the globe to take your location from sunrise to noon to sunset? How does this compare with what you observed with your toilet-plunger sundial?
2. What location in another country on your globe has noon at the exact same time as you? What is your evidence that this is true?
3. How does the sunrise and sunset time for that location in another country differ from the time at your location?

4. What is a location on the globe that experiences midnight when you experience noon?
5. What time zone in the United States experiences sunrise first? What time zone in the United States experiences sunrise last? (*Hint*: Remember that not every state in the United States is connected to where most states are!)
6. Are there places on the Earth that never experience sunrise or sunset?
7. The Sun is unlikely to be directly overhead at your location at noon. Can you find a location where the Sun is directly overhead when it is noon for you? What is the evidence that you have found that location?