

Lengths of Shadows with the Sun Shining Directly
On the Tropic of Cancer, Equator, and Tropic of Capricorn

1. In which season are the shadows the shortest in Utah? Why?

2. In which season are the shadows the longest in Utah? Why?

3. Which two seasons are the shadows in the in the middle of long and short? Why?

4. How did we get the equator?

5. How did we get the Tropic of Cancer?

6. How did we get the Tropic of Capricorn?

7. What do you notice about the light when the sun is shining on the Tropic of Cancer?

8. What do you notice about the light when the sun in shining on the Tropic of Capricorn?

9. Why is the sun higher in the sky during our summer time?

10. Why is the sun lower in the sky during our wintertime?

11. Why are the days shorter in the winter than summer and the days longer in the summer than winter?

12. Graph the lengths of the shadows of each of the places you wrote down data.

13. What is this graph telling you?

Comparisons of the Lengths of the Shadows

