

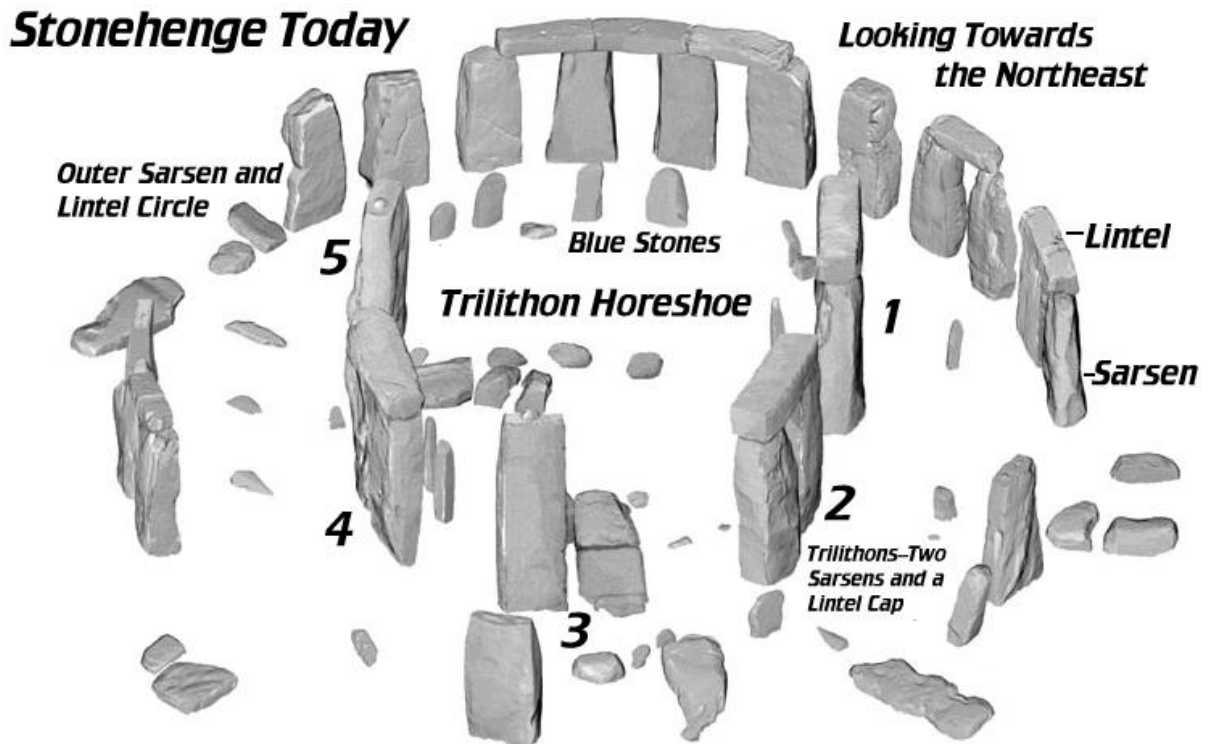
## STONEHENGE LAB

(5 points)

**Instructions:** A map/diagram of Stonehenge can be found on the front and back of this laboratory exercise. After becoming familiar with Stonehenge and learning a little about its history, you will be shown where the sun rises at the summer solstice and at the winter solstice. Students will sketch these positions on the diagram of Stonehenge found on the next page. The five trilithons that form the central horseshoe are marked one through five. They will serve as an easy reference to note other alignment locations. A north/south line has also been introduced on the map to help students determine the other alignments to be drawn. An “X” has been placed as a reference position in the middle of this area. Remember that these alignment lines must pass through one of the five trilithons and through an opening created by the 30 sarsen and lintel caps, which form the outer ring. Otherwise, the alignment will be incorrect. Use a pencil and ruler to make your sightings. On the diagram found on the next page:

1. Note the location of summer solstice sunrise with a straight line.
2. Note the location of the winter solstice sunrise.
3. Sketch the line of sight for the winter solstice sunset. **Label it.**
4. Draw the alignment for the summer solstice sunset. This one is a little tricky. **Label it.**

**Hint:** The location of the summer solstice sunrise is always opposite to winter solstice sunset, and the position of winter solstice sunrise is always opposite to summer solstice sunset. Also, the rising and setting positions of the sun at the same solstice must always be symmetrical to the north/south line.



Name \_\_\_\_\_ Date \_\_\_\_\_ Moravian University

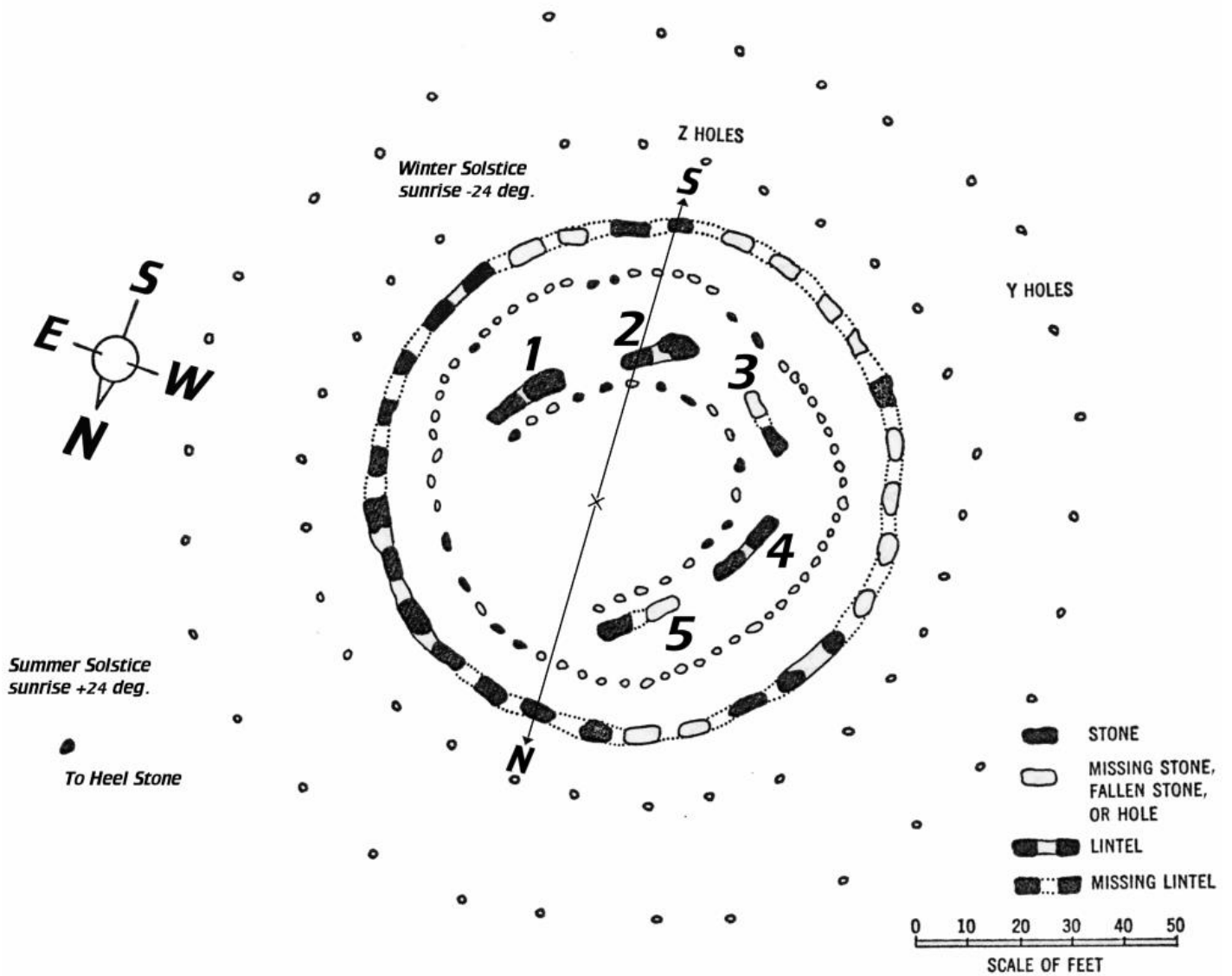
Name \_\_\_\_\_ Name \_\_\_\_\_

1. Add the number of "Y" plus "Z" holes. Divide that number by two and give some type of astronomical explanation for the answer you obtain.

Total "Y" holes \_\_\_\_\_ Total "Z" holes \_\_\_\_\_ Total "Y" plus "Z" \_\_\_\_\_ Average \_\_\_\_\_

Significance? \_\_\_\_\_

## Looking Down on Stonehenge Today



July 17, 2024