Week 23 Geometry Assignment

Day 1: p. 444-445 #1-15, 21-23
Day 2: p. 450 #1-25
Day 3: pp. 452-453 #1-10
Day 4: p. 456 #1-24, omit #18
Day 5: Chapter 10 test

Notes on Assignment:

Pages 444-445:

Work to show:
#1-3: Drawings
#4-15: Show work.
#21-23: Write the formula, fill it in, and work it out.

#4-7: Use the angle measure over 360° to find the fraction of the circle that you are finding. Since we want that fraction of the entire circumference, take that fraction *times* the circumference of the circle. The answers in the solutions packet are given in terms of π and as decimal approximations.

#8-12: These are done the same as the problems above, except that you are given different radii lengths.

#13-15: Note that you are given the *diameter* of the earth.

#22: You will have to find the height of this triangle before you can find the area.

Page 450:

Work to show:
All problems: Answers only

#1-10: Use any map, atlas, or globe. These should be pretty obvious places.

#11-20: You are going to have to estimate these, as most will not fall exactly on your latitude and longitude lines. For that reason, your answers may be 1-2 degrees off from what the solution says. That's ok.

#22: *Approximately*, where do they intersect?

#23: Find the location that is as many degrees *south* of the equator as Hawaii is *north* of the equator.

#24: It would be helpful to use a globe for this. What would be directly on the other side of the world from Honolulu?

#25: Find the location that is the same number of degrees north of the equator, but on the other side of the world.

Pages 452-453:

Work to show:
#1-10: Answer as directed.

#2: Look back to see what is considered "lines" in spherical geometry.

Page 456:

Chapter Review – no notes.

Work to show:
#1-5: True/false
#6-12: Sketches
#7: Answer only
#13-23: Answer as directed.
#24: Sketch

Chapter 10 test:

The test is mainly true/false, short answer, and matching. There are no proofs.

For the test:

- Know Euler's Formula.
- Know how to read maps and give the latitude and longitude readings.
- Find arc measures on a sphere.
- Know the different polyhedra names and what they look like.
- Study all terms and theorems.