**Homework: Chapter 1  
20 points.**

Global Location: the geographic grid, p. 11 – 14.

1. Provide the coordinates for the following locations:

a. Mazatlan, Mexico\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
 b. Sydney, Australia\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c. London, U.K.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. What city is located at the following grid coordinates?

a. 41°N, 12°E\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
 b. 41°N, 87°W\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c. 33°S, 18°E\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. If you are located at 10°S and 80°E, and you travel 20°north and 40°west, what will your new coordinates be?

4. If you are located at 25°S and 30°W and you travel 15°north and 100°east, what will your new coordinates be?

Global Time, p. 14 – 19.

You are located in New York City and it is 1:00pm on Monday, July 1st. What time and what day is it in the following locations?

1. Denver, CO
2. Sao Paulo, Brazil
3. Tokyo, Japan
4. Anchorage, Alaska

Map Scales: p. 21 - 22

1. If a map has a scale written as: 1:24,000

1. What *type* of scale is this?
2. What is 1 inch on the map equal to?

2. Label each scale from largest to smallest scale.

1:10,000

1:250,000

1:500,000

Map Projections: p. 21 – 25.

1. What is the difference between *equivalence* and *conformity* in map projection?

2. What is a *great circle route*?