Scale La	ab
SOURCE:	http://ludwig.missouri.edu/47/scalelab.html

1. Determine the Representative Fraction for the following verbal scales.

one inch represents 16 miles	
one inch represents one mile	
one inch represents 35 miles	
one inch represents 1/2 mile	

2. Establish the verbal scale for the following Representative Fractions:

1:380,000	
1:1,000,000	

3a. Which of the above scales will show the greatest detail in an area of one inch by one inch?

3b. Which will show the least area?

Explain your answers for 3a and 3b

4. Convert the following RFs to graphic scales

1:250,000 (use 10 mile increments)

1:2,000,000 (use 50 mile increments)

5. Sometimes a scale is missing from a map. However, if certain pieces of information are present, the scale can be "obtained" by using logic.

On a certain map we have two towns that measure 5 inches apart. We know from first hand experience that they are 20 miles apart. What is the RF of this map?

The Missouri Football Stadium is 12 3/4 inches from the Columbia Regional Airport on a map with a representative fraction of 1:100,000. How many miles apart are they?

What is the verbal scale of this map?

Using your book and any other resource give six examples maps at different scales. You examples should go from the smallest scale map to the largest scale map.

Scale Ratio (write examples from small scale to large scale)	Map Description