

Name: _____

Silk States

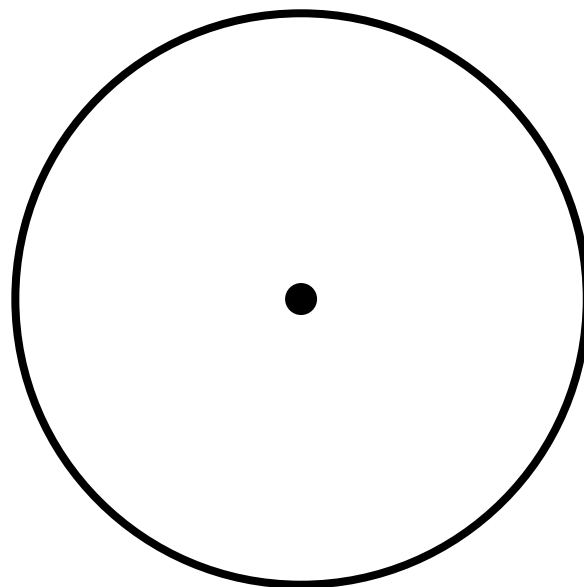
In “Secrets of Silk” (p. 18), you read about how ancient Chinese rulers guarded their silk-making secrets. But the secret got out, and now other countries have embraced sericulture. Complete the activity to learn more about the world’s silk production.

Title: _____

**Silk Cocoon Production
by Top-5 Silk-Producing Countries in 2005**

Country	Cocoons Produced (metric tons)	Percent of Top-5 World Silk Producers (%)
China	290,003	72
India	77,000	
Uzbekistan	17,000	
Brazil	11,000	
Iran	6,000	
Total	401,003	

SOURCE: FOOD AND AGRICULTURAL ORGANIZATION OF THE UNITED NATIONS



Graph It

1. Divide the production of each country by the total to find the percent and fill in the rest of the chart (round to the nearest whole number). We did the first one for you.
2. Use the circle above to make a pie chart from the data. Each wedge will start from the center point marked on the circle.
3. Convert the data from percents to angle degrees by multiplying the percent by 360. For example: 72 percent of the cocoons come from China, so the pie wedge for that country would be 72 percent of the 360° circle, or 259° ($360 \times .72 = 259.2$, rounded to 259). Position a protractor at the center point of the circle. Mark 0° and 259° angles with points on the edge of the circle. Draw a line from these points to the center of the circle.
4. Label the wedge (include its percent).
5. Measure your next wedge from the edge of the first. Do this for the remaining data. When finished, the entire circle should be filled and the wedges should add up to 360°. And don't forget to give your pie chart a title!

Analyze It

1. Which of the top-5 silk producers yields the greatest percent of silk cocoons? The smallest percent?
2. Of the top-5 silk producers, how many countries are in Asia?
3. How many more metric tons of cocoons does India produce than Brazil?
4. Which two countries together are responsible for producing roughly the same amount of silk cocoons as Uzbekistan?
5. Why might China still be the leading producer of silk cocoons after all these years?