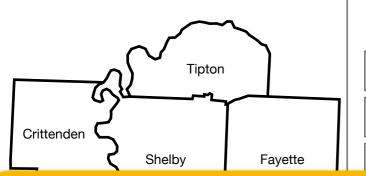
Creating Four Thematic Maps for the Memphis, Tennessee Metropolitan Statistical Area

Choropleth | Graduated Symbol | Dot | Cartogram

CHOROPLETH GRADUATED SYMBOL Tipton Crittenden Shelby **Fayette** DeSoto **Memphis MSA** Marshall Population Percent **Counties** Tate 2015 Total Population 1,344,127 100.0 Crittenden, AR 48,963 3.6 Estimate the size for each circle. DeSoto, MS 173,323 12.9 35,916 Marshall, MS 2.7 **CARTOGRAM DOT** Tate, MS 28,296 2.1 8.0 Tunica, MS 10,343 Fayette, TN 39,165 2.9 Shelby, TN 938,069 69.8 Tipton, TN 61,870 4.6



CHOROPLETH



Add Title

Add Population Categories

Memphis MSA

Counties

Total Population

Crittenden, AR

DeSoto, MS

Marshall, MS

Tate, MS

Tunica, MS

Fayette, TN Shelby, TN

Tipton, TN

Population | Percent

2015

1,344,127

48,963

173,323

35,916

28,296

10,343

39,165

938,069

61,870

GRADUATED SYMBOL

Add Title

Add Population # Circle Size Represents

100.0

3.6

12.9

2.7

2.1

8.0

2.9

69.8

4.6



Directions

- 1. Using the *Memphis MSA chart*, determine how many people the two circles on the left represent and write the number in the legend box.
- 2. Give a title for the legend.
- 3. Determine the approximate size of the circle for each county. The largest circle should fit on the map.
- 4. Draw the circle for each county. The circles can be rough estimates and hand drawn.
- 5. Draw largest circles first.

Directions

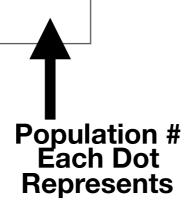
- 1. Using the *Memphis MSA chart*, determine four categories for the Choropleth map and write the categories in the legend box.
- 2. Give a title for the legend.
- 3. Choose a color scheme from dark to light shades of the same color.
- 4. Color each county according to the legend categories you determined.

DOT



Directions

- 1. Using the *Memphis MSA chart*, determine how many people the black dot will represent. This will require dividing the county's total population by the number of people the dot will represent. Be sure the number is reasonable (over 1,000 for certain).
- 2. Write the number the dot will represent in the legend box next to the black dot.
- 3. Draw in each county the correct number of dots. It does not have to perfectly drawn circle dots.



CARTOGRAM



Population # Each Box Represents

Directions

- 1. Using the *Memphis MSA chart*, determine how many people the black box will represent and write it in the legend box (in the thousands).
- 2. Determine how many boxes each county should have (be sure all the counties will fit on the graph).
- 3. Start in the middle of the graph paper with drawing the largest county first.
- 4. Attempt to make the counties look as close as possible to their actual shapes.



DIRECTIONS: Rank order the four maps with 1 being the most effective map to show the population for each county and 4 being the least effective map to show population for each county. Give an explanation for each of your rankings.

Мар	Ranking	Explanation for Ranking
CHOROPLETH STON PROJUMENT WHEN THE MALEUR TO AN OLD THE MALEUR		
GRADUATED SYMBOL GRADUATED SYMBOL 100 100 100 100 100 100 100 100 100 10		
Dot		
CARTOGRAM LILENDONNERS		