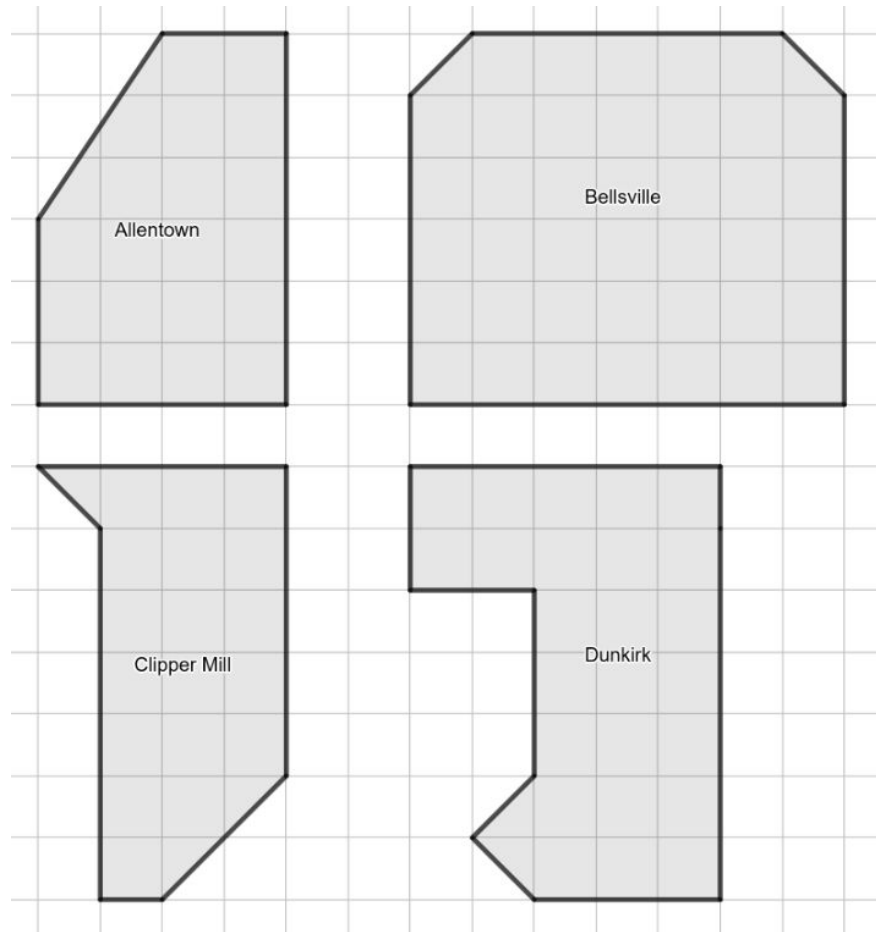


## Population, Area and Density Practice

- 1) What is the area of each of the towns below? Notice that they aren't in the shape of rectangles. Each square in the grid is 1 square mile.



- 2) Complete the population, area and density table below. Round to the nearest person. For example, a density of 135.6 people/mi<sup>2</sup> would be rounded to 136 people/mi<sup>2</sup>.

	Allentown	Bellsville	Clipper Mill	Dunkirk
<b>Population</b>	17,000	24,000	16,000	20,000
<b>Area (mi<sup>2</sup>)</b>				
<b>Density (ppl/mi<sup>2</sup>)</b>				

- 3) Fill in the missing information. Refer to the review on page 28 if you need help.  
Round to the nearest person.

Place	Population	Area (sq. mi.)	Population Density
Adams, NY	3,000	2	1,500
Alfred, NY	4,000	1	
Buffalo, NY	936,000	380	
Champaign, IL	145,000		3,085
Jamestown, ND	15,000		1,500
Los Angeles Metro Area, CA		1736	7,000
Miami, FL		1239	4,441
Montauk, NY	3,000		600
New York City Metro Area, NY	18,351,000		5,319
Oswego, NY	39,000	21	
Palmyra, NY	5,000	5	
Portsmouth, OH	36,000		1,800
Potsdam, NY	9,000		3,000
Red Hook, NY		7	1,000
Snowflake, AZ		5	1,200
Utica, NY	117,000		1,887
Walsenburg, CO	3,000		1,500

Provide the correct answer and explain your answer.

4) For each pair of locations, underline the place that has more people.

A. Los Angeles Metropolitan Area, CA or New York City Metropolitan Area, NY

The NYC metro area has about 18,000,000 people and the LA metro area has about 12,000,000 people. I found out the LA population by multiplying the area (1736 mi<sup>2</sup>) by the density (6,999 ppl/mi<sup>2</sup>).

B. Alfred, NY or Red Hook, NY

5) For each pair of locations, underline the place that is bigger in land area.

A. Los Angeles Metropolitan Area, CA or New York City Metropolitan Area, NY

B. Oswego, NY or Portsmouth, OH

6) For each pair of locations, underline the place that is more crowded.

A. Champaign, IL or Buffalo, NY

B. Montauk, NY or Palmyra, NY

7) The density of \_\_\_\_\_ is about 2500 people/mi<sup>2</sup>.

- 8) The population of Concord, NY was 8,494 people in the 2010 Census. Its density was 121 people per square mile. How big is Concord?
- C. .014 sq. mi.
  - D. 70 sq. mi.
  - E. 8373 sq. mi.
  - F. 1,0327,774 sq. mi.
- 9) What are some reasons places become densely populated with people? Choose all that apply.
- A. economic opportunity
  - B. plentiful natural resources
  - C. temperate climate
  - D. extreme climate
- 10) What are some reasons places are less densely populated with people? Choose all that apply.
- A. economic opportunity
  - B. plentiful natural resources
  - C. temperate climate
  - D. extreme climate
- 11) Which of these would cause a place to become more densely populated?
- A. low birth rate, low death rate
  - B. low birth rate, high death rate
  - C. high birth rate, low death rate
  - D. high birth rate, high death rate



## How Crowded is New York City?

18) Fill in the table below. Round to the nearest person.

Borough	Population (2017)	Area (sq. mi.)	Density (ppl/mi <sup>2</sup> )
Bronx	1,471,160	42	
Brooklyn	2,648,771	71	
Manhattan	1,664,727	23	
Queens	2,358,582	109	
Staten Island	479,458	58	
Total			

19) \_\_\_\_\_ has the highest population.

20) \_\_\_\_\_ has the largest area.

21) With 72,379 people/sq. mi., \_\_\_\_\_ is the borough of NYC with the highest population density.

22) With \_\_\_\_\_ people/sq. mi., \_\_\_\_\_ is the borough of NYC with the lowest population density.

23) List the boroughs in order from least crowded to most crowded.

## Public Libraries in NYC

24) Fill in the table below. Round to the nearest tenth. For example, a density of .22 libraries/mi<sup>2</sup> would be rounded to .2 libraries/mi<sup>2</sup>.

Borough	Libraries	Area (mi <sup>2</sup> )	Density (libraries/mi <sup>2</sup> )
Bronx	35	42	
Brooklyn	59	71	
Manhattan	44	23	
Queens	65	109	
Staten Island	13	58	
Total			

25) There are about \_\_\_\_\_ libraries for every square mile in New York City.

26) \_\_\_\_\_ has the lowest density with \_\_\_\_\_ libraries/mi<sup>2</sup>.

27) Based on libraries/mi<sup>2</sup>, which borough is best for public libraries? \_\_\_\_\_.

Why? \_\_\_\_\_

28) Based on libraries per 100,000 residents, which is best for libraries? \_\_\_\_\_.

Why? \_\_\_\_\_

Borough	Libraries per 100,000 residents
Bronx	2.4
Brooklyn	2.2
Manhattan	2.6
Queens	2.8
Staten Island	2.7

29) Which do you think is a better way to measure the density of libraries, libraries/mi<sup>2</sup> or libraries/100,000 residents? \_\_\_\_\_

\_\_\_\_\_