

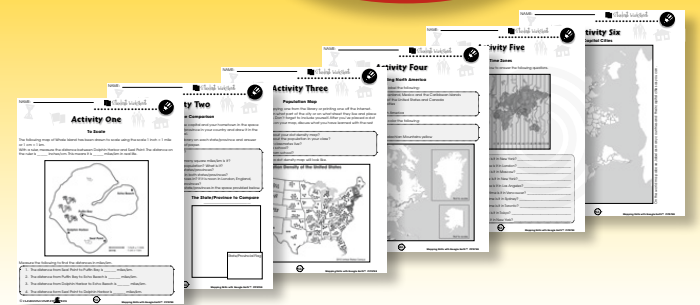
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Population Maps

1. Match the word on the left to its definition on the right by drawing a line.

- | | | | |
|---|--------------------|--|---|
| 1 | population | A comparison of two or more than two things | A |
| 2 | density | The manner in which things are arranged or spread out | B |
| 3 | population density | Something that humans either do or cause to happen | C |
| 4 | choropleths | A map that uses color to explain statistical data | D |
| 5 | dot density maps | A distinct part of the Earth, characterized by unique physical and human characteristics | E |
| 6 | region | A map which uses dots to show how human population is situated | F |
| 7 | human activity | The number of people living in a given area | G |
| 8 | distribution | The quantity of something in a given space or area | H |
| 9 | relative | The concentration of people in a given area | I |

2. Answer the question with a complete sentence.

What do you think the difference between a dot density map and a choropleth map is?



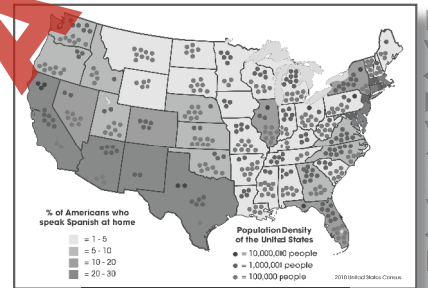
Population Maps

Geographers use **population** maps to study population geography. **Population geography** is a study that is focused on human distribution and density. To study these factors, population geographers examine changes in population and peoples' movements over time. Population geography is closely related to **demography** (the study of population statistics and trends). Population density is also related to population geography. **Population density** is the study of the concentration of people in an area, which is calculated by dividing the number of people present, by the area. Usually these numbers are expressed as number of persons per square mile/kilometer.

Mapping Hint:

The larger the population of an area, the greater number of people will be represented by one dot. Ex. 1 dot = 2000 people, densely populated. 1 dot = 200 people, sparsely populated.

There are two main types of population maps. These are dot density maps and choropleth maps. **Dot density** maps use red dots to show the concentration of people in a given area. Dot density maps in the United States tend to have 1 dot representing 500 people, while those in Canada usually have 1 dot representing 200 people. This is because the United States has a much larger population than Canada. Dot density maps give a clear indication of how population is **distributed**. For example, when we examine a dot density map of the United States, it is clear that a large amount of the population lives on or near the East Coast. When we look at a dot density map of Canada, it is easy to see that most of the population is located close to the United States border and that the greatest concentrations of people are in Southern Ontario and Southern Quebec.



Choropleth map in combination with a dot density map

Choropleth maps are sometimes used in combination with dot density maps to explain statistical data. The map above shows the population density of people living in the United States using dots. It shows the percent of Americans who speak Spanish at home using color. In this manner, two lots of information are expressed on one map.



Explore with Google Earth™

You can view older imagery of the Earth using Google Earth™. Explore the past and see how locations have changed over time. To do this, click the Historical Imagery button in the toolbar. Move the slider at the top left corner of the 3D viewer to see imagery of the past.



Population Maps

1. Circle the word **TRUE** if the statement is TRUE or circle the word **FALSE** if it is FALSE.

- a) Geographers use population maps to study population geography. **TRUE**
- b) Population geography is NOT closely related to demography. **TRUE**
- c) There are three main types of population maps. **TRUE**
- d) Two types of population maps are dot density maps and choropleth maps. **TRUE**
- e) Dot density maps give a clear indication of how population is distributed. **TRUE**
- f) When you look at a dot density map of the United States, it is clear that the greatest concentrations of people are in Southern Alaska. **TRUE**
- g) When you look at a dot density map of Canada, it is clear that the greatest concentrations of people are in Southern Ontario and Northern Quebec. **TRUE**
- h) Choropleth maps are sometimes used in combination with dot density maps to explain statistical data. **TRUE**

2. Fill in each blank with a word from the reading passage.

Population _____ is a study that is focused on human _____ and density. To study these factors, population geographers examine changes in _____ and peoples' movements over time. Population _____ is the study of the concentration of people in an area, which is calculated by dividing the number of people present, by the area.

There are two main types of population maps. These are dot density maps and _____ maps. Dot density maps use red dots to show the _____ of people in a given area. Dot density maps give a clear indication of how population is distributed. Choropleth maps are sometimes used in combination with dot density maps to explain _____ data.



Population Maps

Answer each question with a complete sentence.

- 3. What is population density? _____
- 4. How is population density expressed? _____
- 5. What is a dot density map? _____
- 6. How can choropleth maps and dot density maps be used together? _____
- 7. Name a branch of geography. _____
- 8. What is demography? _____

Research

- 9. Look at a dot density map of the United States, like the one on page 23. Where is most of the population? _____
- 10. Look at a dot density map of Canada. Where is most of the population? _____
- 11. Look at a dot density map of the United States. Where is the least amount of dots? Why? _____

NAME: _____

Map Activity



Map the World

Locate the following capital cities found all over the world: Washington D.C., United States; Ottawa, Canada; Mexico City, Mexico; Kingston, Jamaica; Port au Prince, Haiti; Bern, Switzerland; Prague, Czech Republic; London, England; Paris, France; Moscow, Russia; Beijing, China; Cairo, Egypt; Copenhagen, Denmark; Khartoum, Sudan; Johannesburg, South Africa; Brasilia, Brazil; Oslo, Norway; Stockholm, Sweden; Buenos Aires, Argentina; Lima, Peru; Rome, Italy; Athens, Greece; Reykjavik, Iceland; Kiev, Ukraine; Warsaw, Poland; Canberra, Australia; Wellington, New Zealand; New Delhi, India; Islamabad, Pakistan; Baghdad, Iraq; Bangkok, Thailand; Helsinki, Finland; Madrid, Spain; and Tokyo, Japan.



After You Read

NAME: _____



Crossword Puzzle!



CLUES:

Across

1. A series of imaginary horizontal lines, placed over a map.
2. A tool that explains distance.
4. The quantity of something in a given space or area.
7. A type of map that uses color to explain statistical data, such as population.
8. An area that is swampy, with land that usually borders rivers, lakes or oceans.
10. The number of people living in a given area.
12. The manner in which things are arranged or spread out.

Down

1. A table that explains pictures on a map.
2. Drawings on a map that represent something on the ground.
3. A unique cultural or physical region, defined by a boundary.
5. A map that shows cities, towns and the boundaries of countries, provinces or states.
6. A massive body of water.
8. Types of maps that usually show climate, precipitation or temperature.
9. A map that shows physical features, such as elevation.
11. The name of an arid region that receives very little snow or rain.



Word List

choropleth	latitude lines	scale
country	legend	symbol
density	ocean	topographic
desert	political	weather
distribution	population	wetland

After You Read

NAME: _____



Comprehension Quiz



35

Part A

Circle the word **TRUE** if the statement is TRUE or circle the word **FALSE** if it is FALSE.

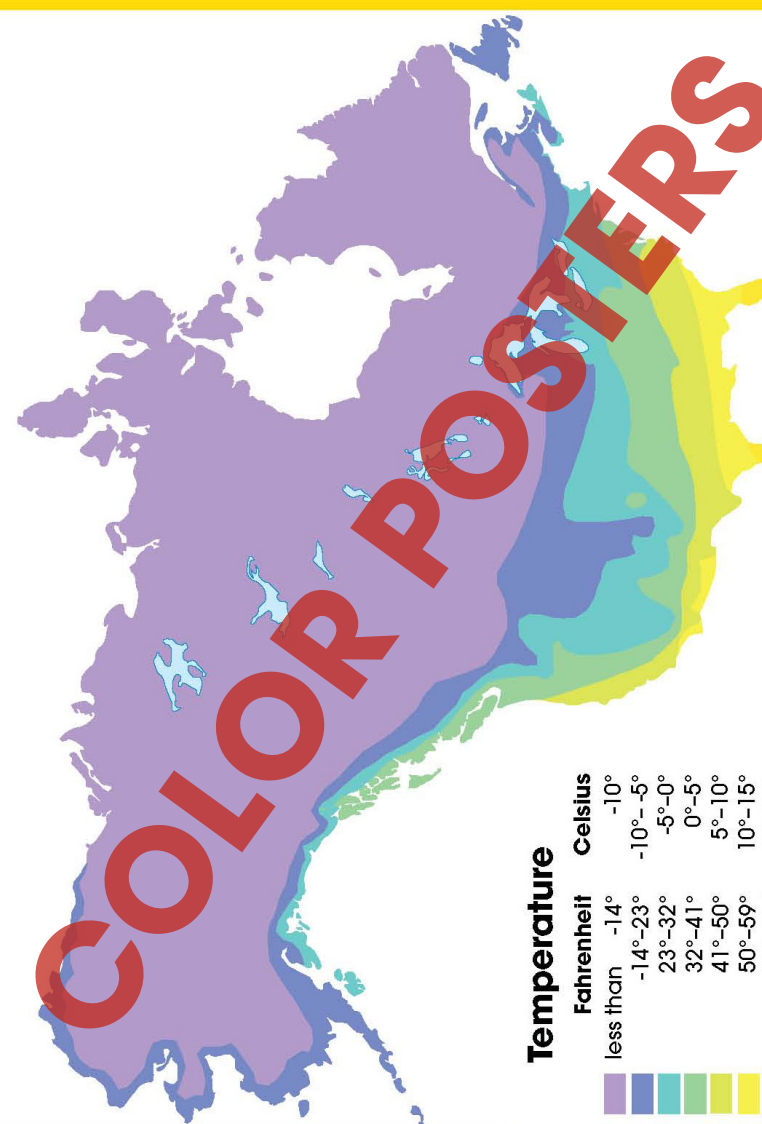
1. A map with a scale of 1:20 shows more detail than a map with a scale of 1:200.
TRUE FALSE
2. Weather maps usually show climate, precipitation or temperature.
TRUE FALSE
3. Population geography is the study of the concentration of people in an area, which is calculated by dividing the number of people present, by the area.
TRUE FALSE
4. Topographic maps use contour lines to show differences in elevation.
TRUE FALSE
5. Dot density maps use colors to show statistical data.
TRUE FALSE
6. The North American continent can be divided into four distinct regions.
TRUE FALSE
7. Maps are more accurate than globes at portraying the Earth.
TRUE FALSE
8. The distinct regions that make up the North American continent include the Great Plains, the Rocky Mountains, the Canadian Shield, and the Eastern Region.
TRUE FALSE

Part B

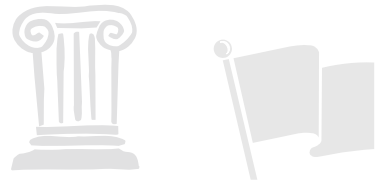
1. What is a dot density map? _____
2. How can choropleth maps and dot density maps be used together?

3. What is a political map? _____
4. What is a topographic map? _____
5. What is a choropleth map? _____

Weather Map



NAME: _____



Map the World



1. Use the words in the box to answer each question. You may use a dictionary to help you. Note, some words will not be used.

Ocean	sea	lake
Continent	map	globe
North Pole	Antarctica	river
Amazon	Mississippi	Nile
Mt. Everest	Mt. McKinley	Mont Blanc
Paris	London	Ottawa
Rockies	Andes	Alps

- a) What is a massive land mass?
- b) What is the highest mountain in the world?
- c) What is the name of a mountain range in South America?
- d) What is the name of the highest mountain range in North America?
- e) What is the capital city of France?
- f) What is the capital city of England?
- g) What is the longest river in the world?
- h) What is a large land-locked body of water called?
- i) What is located at 0 degrees longitude and 90 degrees North latitude?
- j) What is the highest mountain range in Europe?

EASY MARKING ANSWER KEY

- 1. a) continent
- b) Mt. Everest
- c) Andes
- d) Rockies
- e) Paris
- f) London
- g) Nile
- h) lake
- i) North Pole
- j) Alps

- 1. a) accurate
- b) curve
- c) tilted
- d) seasons
- e) summer
- f) winter
- g) axis
- h) Globes
- i) representations
- j) equator
- k) poles
- l) grid
- 2. a) B
- b) D
- c) A

- 3. There are 7 continents in the world.
- 4. There are 4 oceans in the world with the "Southern Ocean" considered to be the fifth.
- 5. The landmass was called Pangaea.
- 6. The world's largest lake is called a sea because it is made of salt water.
- 7. The largest fresh water lake in the world is Lake Superior.
- 8. Globes and maps are both pictorial representations of the Earth.
- 9. Globes are more accurate than maps, as they are 3 dimensional and able to show the curve of the Earth. Also, globes are tilted in the exact manner that the earth is tilted.
- 10. Seasons occur because of the tilt of the Earth. In the summer, the northern hemisphere is closer to the Sun, while the southern hemisphere is away from the Sun, creating winter.
- 11. Answers may vary.

Map Activity
Make sure the student correctly identifies the capital cities of countries found all over the world on the map.