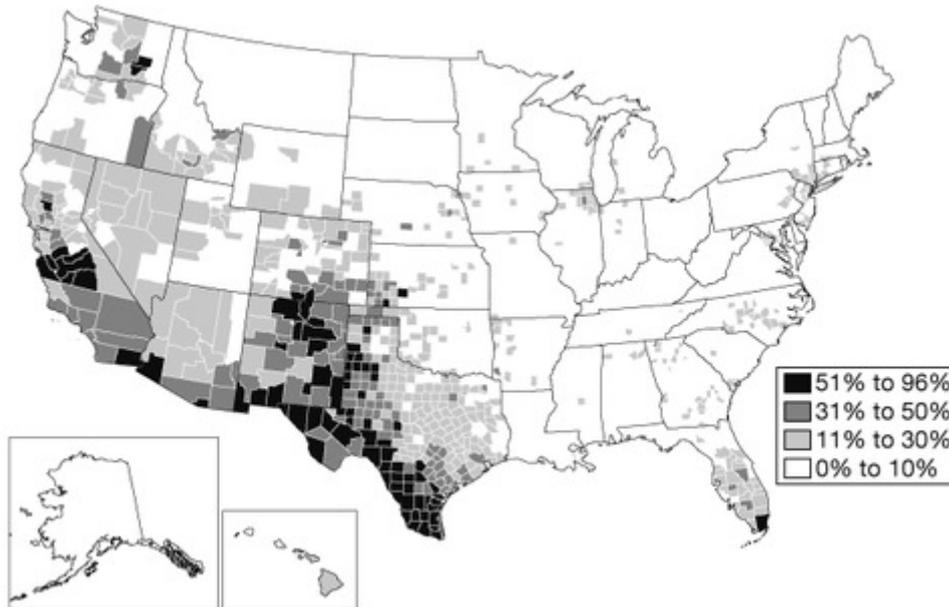**Reformed Unit 1 Exam**   Name _____

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1. **HISPANIC POPULATION PERCENTAGE**
    BY COUNTIES IN THE UNITED STATES, 2010

    Source: United States Census Bureau
    Which of the following is a limitation of the map of Hispanic population percentage?

A   The small size of urban counties in the eastern United States masks the significance of the Hispanic population in most eastern cities.

B   Larger county sizes in the western United States mask the significance of the Hispanic population in most western counties.

C   States with the largest total populations mask the significance of the Hispanic population in those states.

D   States with the smallest total populations mask the significance of the Hispanic population in those states.

E   The pattern shown is not different than the pattern of early Hispanic settlement during the era of colonization.

---

2. Latitude and longitude may be used to determine which of the following characteristics of a place?

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Ⓐ Its site features

Ⓑ Its absolute location

Ⓒ Its relative location

Ⓓ Its situation

Ⓔ Its elevation

3. Which of the following is most likely to be used by a marketing firm seeking to map patterns of lifestyle characteristics in the United States?
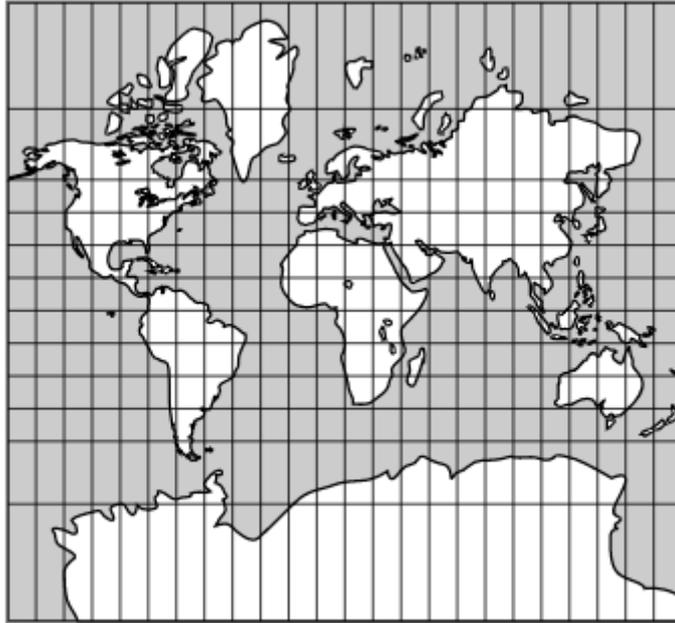
Ⓐ States

Ⓑ Zip codes

Ⓒ Nonmetropolitan areas

Ⓓ Congressional districts

Ⓔ Counties

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4.

The map above represents what kind of projection?

A) A Mercator projection with distorted land areas

B) A planar projection with diverging lines at the poles

C) A homolosine projection with continuity of landmasses

D) A Robinson projection with distortions at the equator

E) A gnomonic projection with distortions of bodies of water

Compare the two maps shown, then answer the following questions.

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MERCATOR PROJECTION   ROBINSON PROJECTION
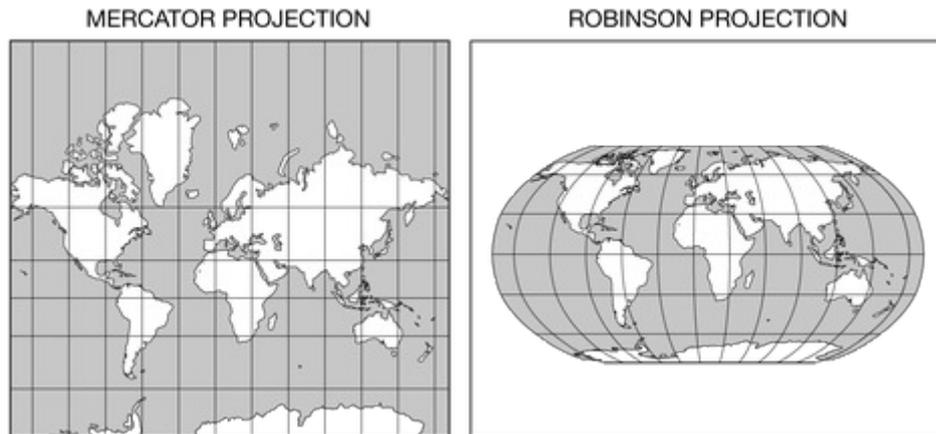
5. Which of the following is a characteristic of the Mercator projection?

(A) The size and shape of countries in the higher latitudes are greatly exaggerated.

(B) The size of all countries is accurate, but the shape is distorted.

(C) Countries near the Equator appear 50 percent larger than countries in the middle latitudes.

(D) The projection is designed to maintain undistorted outlines of landmasses.

(E) Distances on the Mercator projection are real and accurate.

6. Which of the following statements about the Robinson projection is correct?

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(A) It is more useful for long-distance navigation than the Mercator projection.

(B) It is better for making topographical maps than the Mercator projection.

(C) It is more accurate than the Mercator projection in showing the sizes of countries in higher latitudes.

(D) It is more useful for showing the distribution of human populations than the Mercator projection.

(E) It is better for estimating territorial waters in lower latitudes than the Mercator projection.

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7. **CENSUS FORM, 2010**

Source: United States Census Bureau

A political polling company wants to use census data to collect information on voters in a city by neighborhood. Based on the types of information collected in the survey form, which of the following could be mapped using census data?

(A) The number of voting-age residents per household

(B) The political party affiliation of the average resident

(C) How residents voted in the last election

(D) How voters might vote in the next national election

(E) How voters stand on current issues

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8. **IMPERIAL VALLEY**
   ALONG THE UNITED STATES–MEXICO BORDER

   Source: NASA
   Which of the following best describes the data presented in the image?

   A) Coordinates for a satellite navigation system

   B) Political map of a region

   C) Series of geographic information systems layers

   D) Remote sensing satellite image of land use

   E) Cartogram of quantitative spatial information

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9. **MOUTHS OF THE ATCHAFALAYA RIVER ON THE LOUISIANA COAST OF THE GULF OF MEXICO, SATELLITE IMAGES IN 1984 (LEFT) AND IN 2017 (RIGHT)**
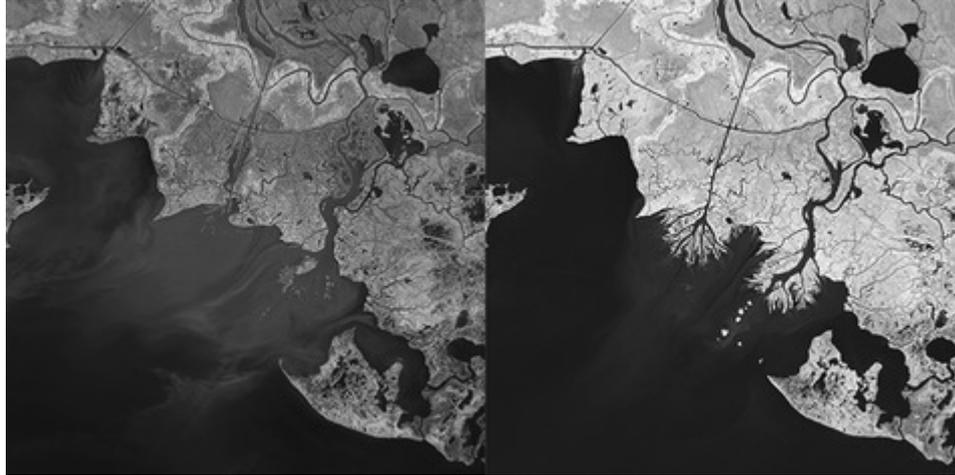
RIVER DELTA FORMATION, 1984 TO 2017

New Land Areas	Land Added
Wax Lake Delta	14,536 acres
Atchafalaya River Delta	18,533 acres
Total	33,069 acres

The satellite images show changes to a portion of the Louisiana coast between 1984 and 2017. The table shows the changes in land acreage. Which of the following best describes the changes and a consequence of the changes?

A The expansion of coastal cities, which results in increased acreage of urban land cover

B A decrease in the acreage of coastal land, which affects the prices of local property

C An increase in the acreage of coastal land, which will be added to navigational charts for shipping

D The rise of sea levels, which results in decreased land acreage available for homes and businesses

E An increase in land acreage caused by the construction of polders for land reclamation

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10. **RESIDENTIAL NEIGHBORHOODS IN SINGAPORE**
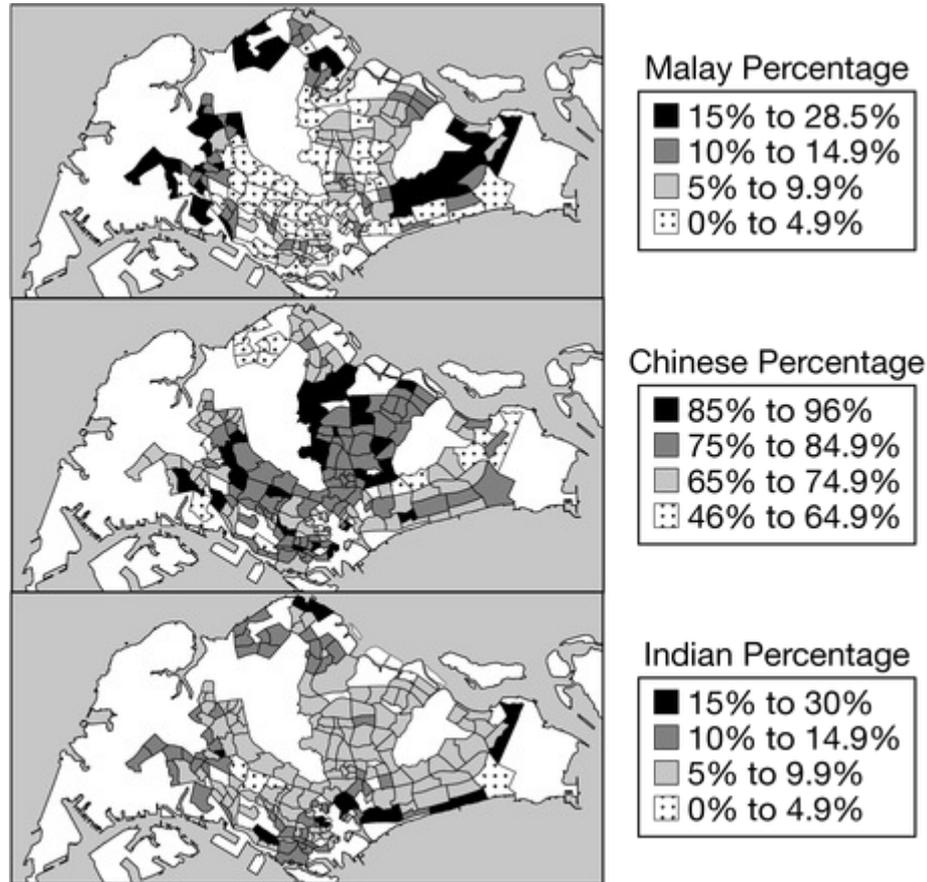
Source: Esri

The maps show residential neighborhoods in the Republic of Singapore. Which of the following individuals or organizations would be most likely to make a decision based on the spatial pattern shown on the maps?

(A) A person planning to move from a more rural area to a more urban area within Singapore

(B) A business analyzing demographic change over time within its market area

(C) An environmental advocacy group seeking to protect habitats of vulnerable species

(D) A government agency seeking to promote equal opportunities across ethnicities

(E) A multinational corporation identifying a location for a new factory

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11. **RESIDENTIAL NEIGHBORHOODS IN SINGAPORE**
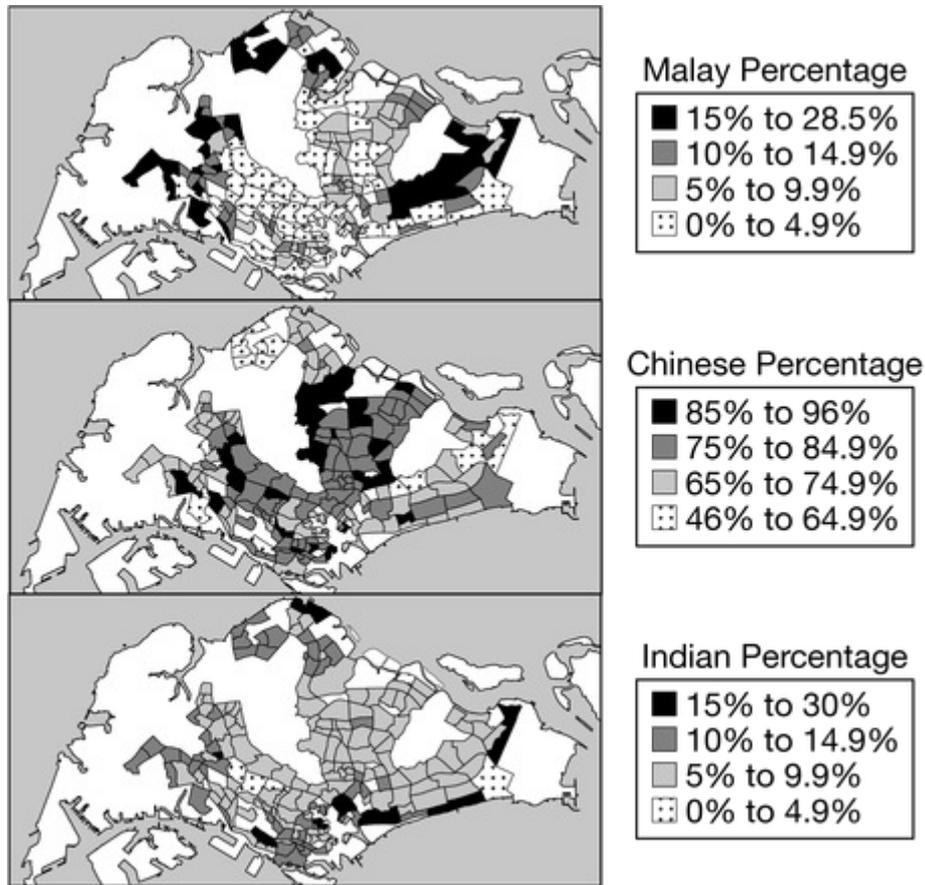
Source: Esri

Which of the following best describes the spatial pattern of ethnicity in Singapore's neighborhoods?

A   Malay is the largest ethnic group, ethnic Chinese live in the center of the city, and ethnic Indians live in the peripheral neighborhoods.

B   The three major ethnic groups, Malay, Chinese, and Indian, are evenly distributed across the city.

C   Ethnic Chinese residents are in the majority across most of the city, while ethnic Malay and ethnic Indian residents are concentrated in the peripheral neighborhoods.

D   Ethnic Malay and ethnic Indians are evenly distributed throughout the city, while Chinese are only in the majority within the core central neighborhoods.

E   Indian is the largest ethnic group, ethnic Chinese live in the center of the city, and ethnic Malay live in the peripheral neighborhoods.

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12. **WORKING-AGE POPULATIONS, 2000–2030**

Region	Working-Age Population in 2000 (millions)	Working-Age Population in 2015 (millions)	Projected Working-Age Population in 2030 (millions)	Percent Change 2000-2015	Projected Percent Change 2015-2030
World	3,860	4,825	5,496	25.0%	13.9%
Asia	2,370	2,988	3,306	26.1%	10.6%
Europe	452	446	405	−1.3%	−9.2%
Latin America	305	395	452	29.5%	14.4%
North America	197	217	220	10.2%	1.4%
Sub-Saharan Africa	338	519	803	53.6%	54.7%

Source: Population Reference Bureau

An international company is looking to expand its network of factories, which use labor-intensive production methods, in a region of the world experiencing significant growth in the working-age population. Based on the data in the table, which of the following regions should the company choose?

A North America, which will have faster working-age growth in 2015 to 2030 than in 2000 to 2015

B Asia, which will have a faster working-age growth rate in 2015 to 2030 than in 2000 to 2015

C Latin America, which had the fastest working-age growth rate among world regions from 2000 to 2015

D Asia, which will have the fastest working-age growth rate among world regions from 2015 to 2030

E Sub-Saharan Africa, which will have the fastest working-age growth rate among world regions from 2015 to 2030

13. **A SHORT WALK THROUGH CENTRAL PARK IN NEW YORK CITY**

Walkway	Time
Walk down from the Alice in Wonderland statue to the model boat pond.	Less than 1 minute
Turn right and walk along the pond, until you come to the Hans Christian Anderson Monument.	1 minute
From there, walk west through the trees and cross the road at East Drive.	1 minute
Turn left at the lake and walk along the shore to the Bethesda Fountain.	2 minutes
Walk around the fountain and continue on the path along the lake.	1 minute
As the path turns to the left you will see the Bow Bridge on the right.	2 minutes

Which of the following best describes the type of information provided in the directions?

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(A) Absolute location

(B) Relative location

(C) Cultural landscape

(D) Geographic information systems

(E) Cartographic principles

14. **SECONDARY SCHOOL ENROLLMENT PERCENT, 2016**
    (PERCENT OF ELIGIBLE AGE GROUP ENROLLED)

Percent of Age Group Enrolled in Secondary School
- ■ 96% to 100%   ⊟ 51% to 70%
- ■ 91% to 95%   □ 10% to 50%
- ▨ 71% to 90%
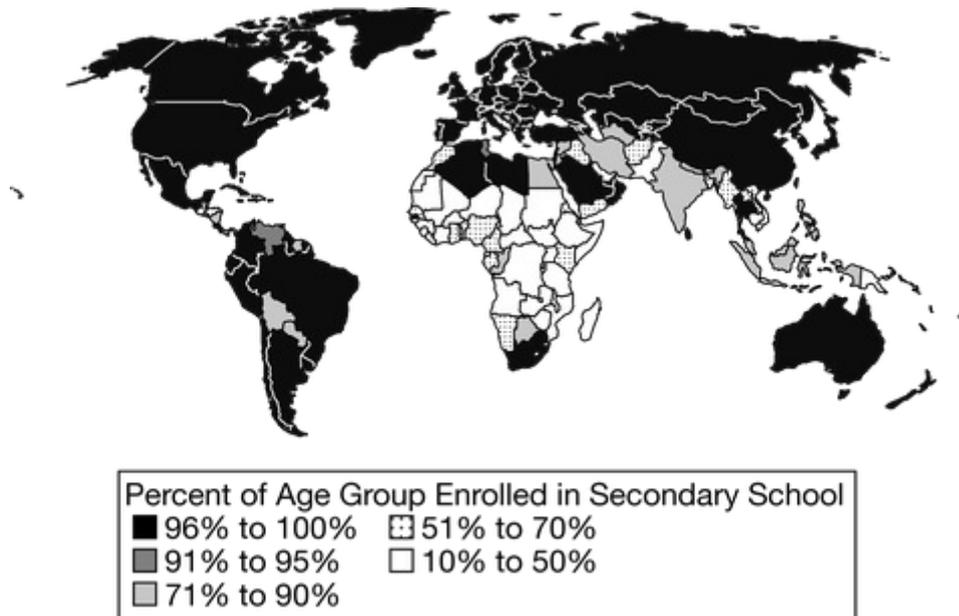
Source: World Bank

Which of the following spatial patterns accurately describes the data presented in the map?

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A. Most continents have countries with secondary school enrollments below 75 percent.

B. There are no countries in Africa with secondary school enrollments above 90 percent.

C. The majority of countries with less than 70 percent secondary school enrollment are in sub-Saharan Africa.

D. The secondary school enrollment is proportional to population density.

E. Landlocked countries have secondary school enrollments above 90 percent.

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15. In descriptions of interaction between people and the environment, the term "environmental determinism" implies that

A. the physical environment exclusively shapes humans and their actions

B. humans by their actions and technologies alter the physical environment to suit their needs

C. determination of environmental limitations is a primary task of geographers

D. capitalist economies do not contribute to global environmental degradation

E. there exists no interacting relationship between people and their surrounding physical environment

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16.

Window screens

Green roofs
Photovoltaics

Breezeways

Pilings

All of the terms listed above could be used to illustrate what concept?

Ⓐ Folk cultures responding to physical geography

Ⓑ Diffusion of cultural traits from Asia

Ⓒ Architectural adaptations to the natural environment

Ⓓ Elements of cultural identity

Ⓔ Innovation without diffusion

17. Which of the following global trends best exemplifies the concept of sustainability?

Ⓐ An increase in the use of agricultural pesticides, because farms using agricultural chemicals produce more food.

Ⓑ An increase in the use of electric vehicles, because their reduced emissions result in less environmental pollution.

Ⓒ A decrease in the amount of polar sea ice, because it opens more sea lanes for shipping.

Ⓓ An increase in the number of people living in coastal areas, because residents will feel more connected to nature.

Ⓔ A decrease in the practice of slash-and-burn agriculture, because large irrigated farms produce food more efficiently.
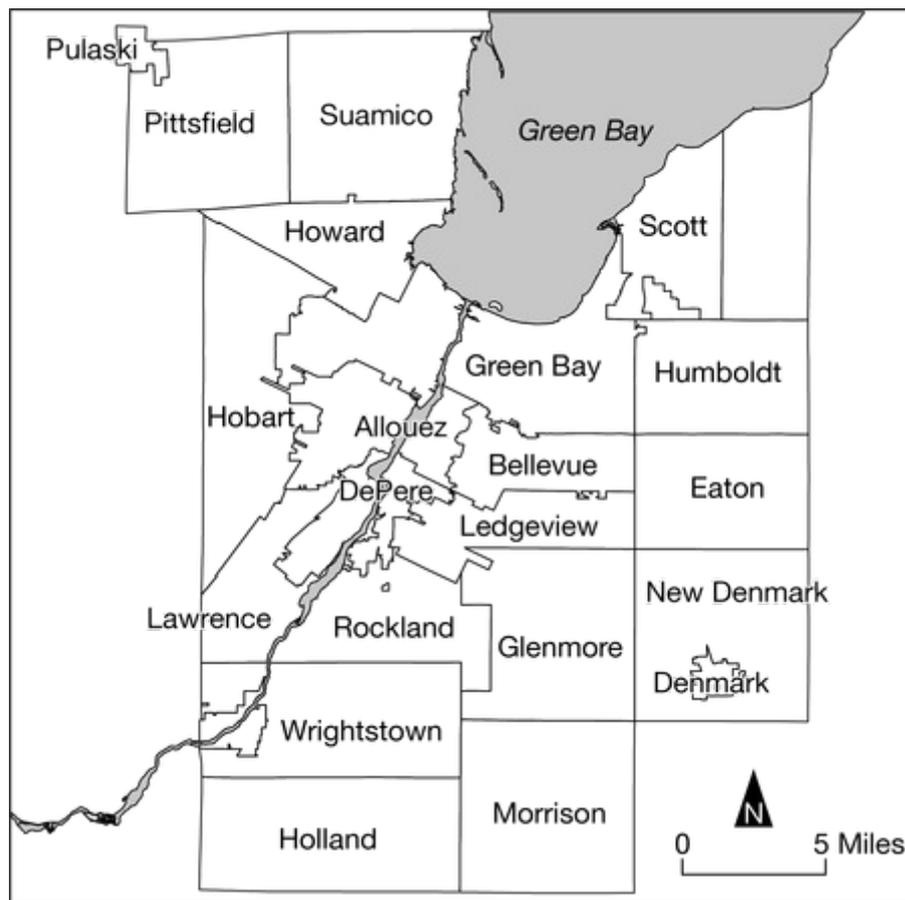
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18. The concept of environmental sustainability is best explained by which of the following examples?

Ⓐ Strip-mining of coal on mountainsides, to keep miners from working in underground conditions

Ⓑ Terracing rice paddies on hillsides, to prevent soil erosion and provide gravity-fed irrigation

Ⓒ Clear-cutting trees in coastal woodlands, to provide building materials for constructing homes

Ⓓ Fattening cattle in dryland feedlots, to practice agriculture efficiently and at the lowest cost

Ⓔ Draining of wetlands in residential areas, to reduce the presence of stinging insects

19.

Which of the following scales is represented in the map shown?

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Ⓐ Local, showing the towns and township areas in a county

Ⓑ Regional, showing the states or provinces in one part of a country

Ⓒ State or province, showing the counties or parishes

Ⓓ Neighborhood, showing the block along street boundaries

Ⓔ Block, showing the property lines and names of owners

EUROPEAN UNION 2018
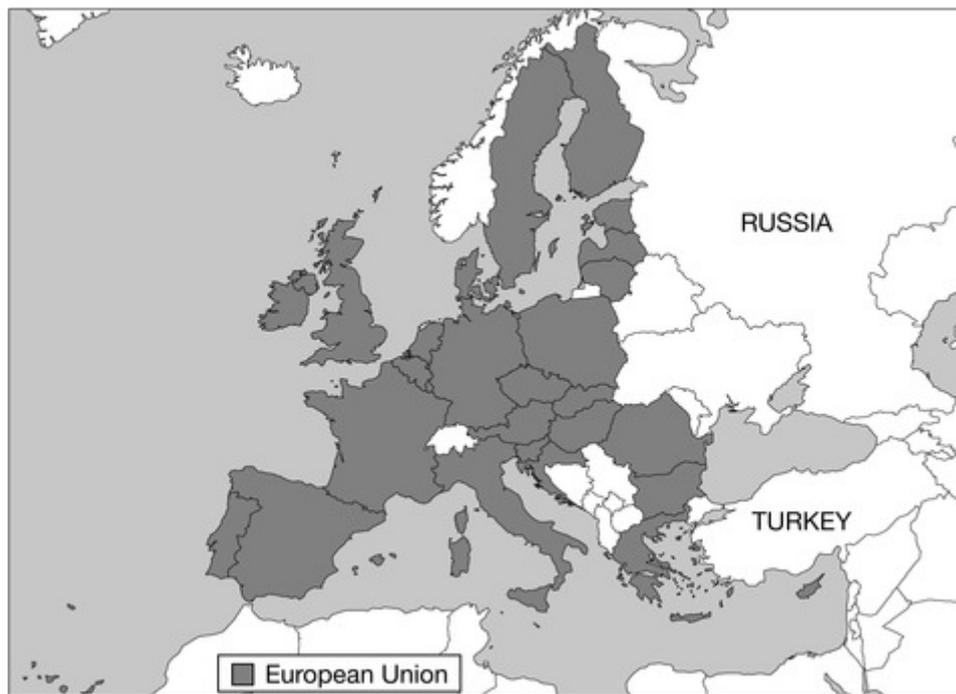
COUNTRIES OF THE FORMER YUGOSLAVIA

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Source: Natural Earth GIS

20. Which of the following best identifies the scale of analysis for each of the maps shown?

Ⓐ Global and regional

Ⓑ Regional and urban

Ⓒ Continental and country

Ⓓ Global and local

Ⓔ Country and local

21. Why would a town planner use a map at the 1:24,000 scale rather than a map at the 1:250,000 scale?

(A) The map at the 1:24,000 scale shows a much larger area.

(B) The map at the 1:24,000 scale is easily converted to non-metric measurements.

(C) The map at the 1:24,000 scale shows the town close-up in more detail.

(D) The map at the 1:250,000 scale shows the town in too much detail.

(E) The map at the 1:250,000 scale shows too small of an area to see the whole town.

TABLE 1: MEDIAN HOUSEHOLD INCOME FOR SELECTED PLACES, 2018

Place	Median Household Income
United States	$57,652
New York State	$62,765
New York City metropolitan area	$75,368
City of New York	$57,782

TABLE 2: MEDIAN HOUSEHOLD INCOME, 2018

FIVE BOROUGHS OF NEW YORK CITY

Place	Median Household Income
Bronx	$36,593
Brooklyn	$52,782
Manhattan	$79,781
Queens	$62,008
Staten Island	$76,244

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Source: United States Census Bureau

22. The data on median household income in Table 1 is presented in different

(A) culture regions

(B) physical regions

(C) map scales

(D) scales of analysis

(E) vernacular regions

23. **Read the definitions below and then answer the question that follows.**
Watershed: A region in which all rainfall eventually flows downhill through a system of streams and tributaries into the same body of water, such as the catchment basin of a river or lake.
Milkshed: A region in which fresh milk is produced and can be delivered without spoilage for sale and consumption. A dairy farm sits at the center of an area, the size of which is determined by how far fresh milk can be shipped and still maintain shelf-life for consumers.
Given the definitions, watersheds and milksheds can best be classified as what type of region?

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(A) Culture

(B) Formal

(C) Functional

(D) Industrial

(E) Vernacular

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24. Which of the following are the best examples of vernacular regions?

(A) The Canadian Maritimes and the Northwest Territory

(B) The American West and the American Midwest

(C) South Africa and Australia

(D) South America and the Caribbean

(E) Scandinavia and the Iberian Peninsula