

Name: _____ Date: _____ Period: _____

Human Geography: Population Density

Objective: Use population density to explain the relationship between people and the environment.

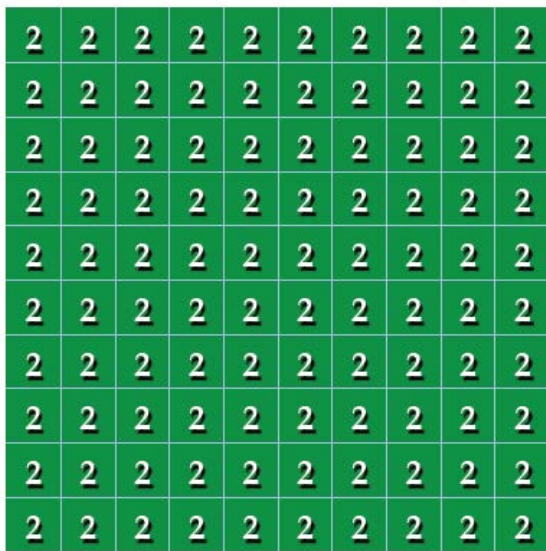
- a. Knowledge of the geographic patterns and characteristics of human populations facilitates understanding of cultural, political, economic, and urban systems.

Use the following website (<https://www.indexmundi.com/map/>) under “comparative world maps” to rank in order the countries with the highest population density to the lowest:

Netherlands, Vietnam, Singapore, Spain, Bangladesh

1 (Highest)	2	3	4	5 (Lowest)

Arithmetic Density



Arithmetic Density

- Each green square represents 1 square mile
- The entire area represents 100 square miles
- There are 200 people living in the entire area (100 square miles). By dividing the number of people by the squared area, you will calculate the population (arithmetic) density.

$$\frac{\text{\# of Individuals}}{\text{Total Area}} = \frac{200 \text{ people}}{100 \text{ m}^2}$$

- There are 2 people per square mile

2 people per m²

Physiological Density

- Each green square represents 1 square mile of **ecumene** land that is **arable**.
- Each brown square represents 1 square mile of uninhabited land.
- There are 200 people living in the entire arable area (10 square miles). By dividing the number of people by the squared arable area, you will calculate the population (physiological) density.

$$\frac{200 \text{ people}}{10 \text{ m}^2}$$

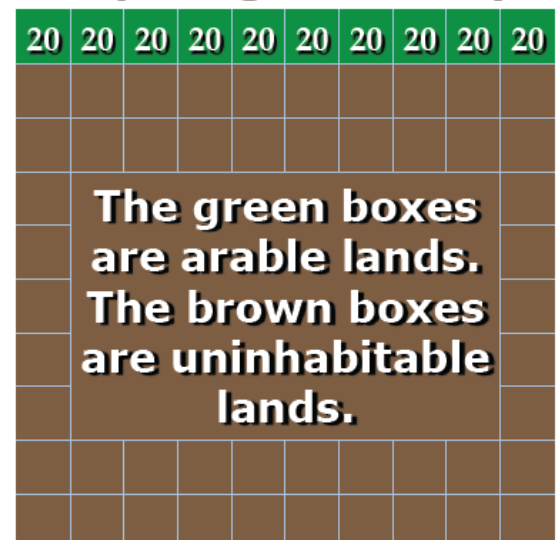
- There are 20 people per square mile.

20 people per m²

Arable – land capable of being plowed and used to grow crops.

Ecumene – a permanently inhabited land

Physiological Density



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Population and Physiological Densities Activity – Match the country with the correct statistics below each set of countries.

Example			
Canada		U.A.E.	
Egypt		U.S.A.	

A
Population -
Area in Km - 82,880
Arithmetic Density - 49
Physiological Density - 6,404

B
Population - 78 million
Area in Km -
Arithmetic Density - 78
Physiological Density - 2,668

C
Population -
Area in Km - 9,161,923
Arithmetic Density - 32
Physiological Density - 179

D
Population - 33 million
Area in Km -
Arithmetic Density - 4
Physiological Density - 78

1			
Australia		Netherlands	
India		Singapore	

A
Population - 4.4 million
Area in Km -
Arithmetic Density - 6,483
Physiological Density - 440,998

B
Population -
Area in Km - 33,883
Arithmetic Density - 484
Physiological Density - 2,205

C
Population -
Area in Km - 2,973,190
Arithmetic Density - 368
Physiological Density - 753

D
Population -
Area in Km - 7,617,930
Arithmetic Density - 3
Physiological Density - 43

2			
Costa Rica		Japan	
Denmark		Qatar	

A
Population - 863,051
Area in Km -
Arithmetic Density - 75
Physiological Density - 4,601

B
Population -
Area in Km - 374,744
Arithmetic Density - 340
Physiological Density - 2,924

C
Population - 4 million
Area in Km -
Arithmetic Density - 79
Physiological Density - 1,803

D
Population -
Area in Km - 42,394
Arithmetic Density - 128
Physiological Density - 244

3			
Bangladesh		Iceland	
Hong Kong		Spain	

A
Population - 6.8 million
Area in Km -
Arithmetic Density - 6,621
Physiological Density - 131,101

B
Population -
Area in Km - 100,250
Arithmetic Density - 3
Physiological Density - 4,229

C
Population -
Area in Km - 133,910
Arithmetic Density - 1,078
Physiological Density - 1,946

D
Population - 40 million
Area in Km -
Arithmetic Density - 81
Physiological Density - 297

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Directions: Use the following website to locate the statistical rankings of each country mentioned below.

Website: <https://www.indexmundi.com/g/rank.html>

INDONESIA	
Crude Birth Rates	
Crude Death Rates	
Net Migration Rate	
Fertility Rate	
GDP - per capita	
Unemployment Rate	

UNITED STATES	
Crude Birth Rates	
Crude Death Rates	
Net Migration Rate	
Fertility Rate	
GDP - per capita	
Unemployment Rate	

UNITED ARAB EMIRATES	
Crude Birth Rates	
Crude Death Rates	
Net Migration Rate	
Fertility Rate	
GDP - per capita	
Unemployment Rate	

ITALY	
Crude Birth Rates	
Crude Death Rates	
Net Migration Rate	
Fertility Rate	
GDP - per capita	
Unemployment Rate	

IRELAND	
Crude Birth Rates	
Crude Death Rates	
Net Migration Rate	
Fertility Rate	
GDP - per capita	
Unemployment Rate	

JAPAN	
Crude Birth Rates	
Crude Death Rates	
Net Migration Rate	
Fertility Rate	
GDP - per capita	
Unemployment Rate	