

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

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

A world map where landmasses are highlighted in a vibrant cyan color against a dark, almost black background. The map shows a global distribution of activity, with higher concentrations in the Northern Hemisphere, particularly in North America, Europe, and East Asia. The text 'Density Activity' is overlaid in the center in a large, white, bold font with a slight shadow effect.

Density Activity

Place in order the countries with the highest population density to the lowest.

Country	Order
Netherlands	
Vietnam	
Singapore	
Spain	
Bangladesh	

Place in order the countries with the highest population density to the lowest.

Country	Order
Netherlands	
Vietnam	
Singapore	1
Spain	
Bangladesh	

Place in order the countries with the highest population density to the lowest.

Country	Order
Netherlands	
Vietnam	
Singapore	1
Spain	
Bangladesh	2

Place in order the countries with the highest population density to the lowest.

Country

Order

Netherlands

3

Vietnam

Singapore

1

Spain

Bangladesh

2

Place in order the countries with the highest population density to the lowest.

Country

Order

Netherlands

3

Vietnam

4

Singapore

1

Spain

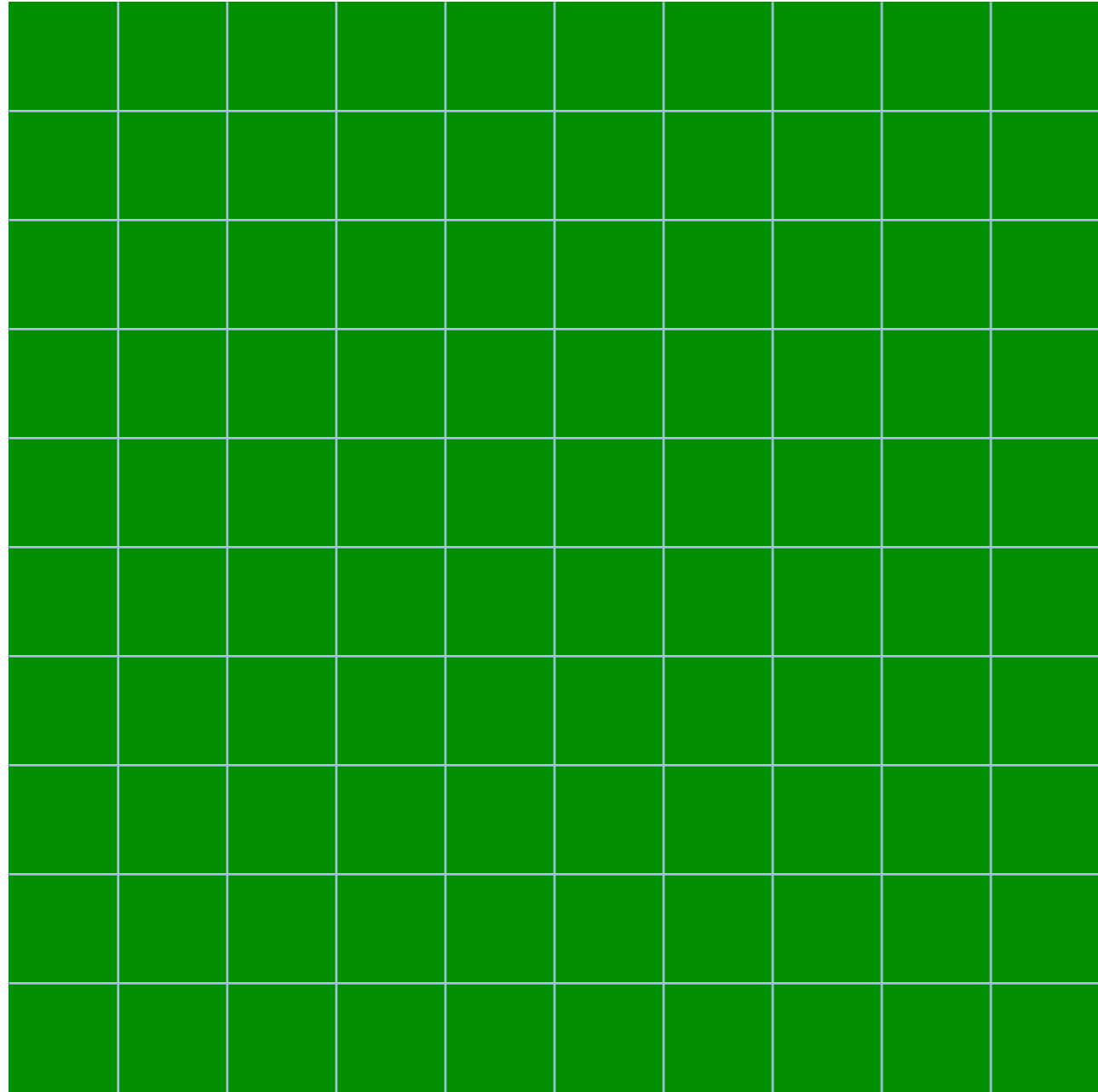
Bangladesh

2

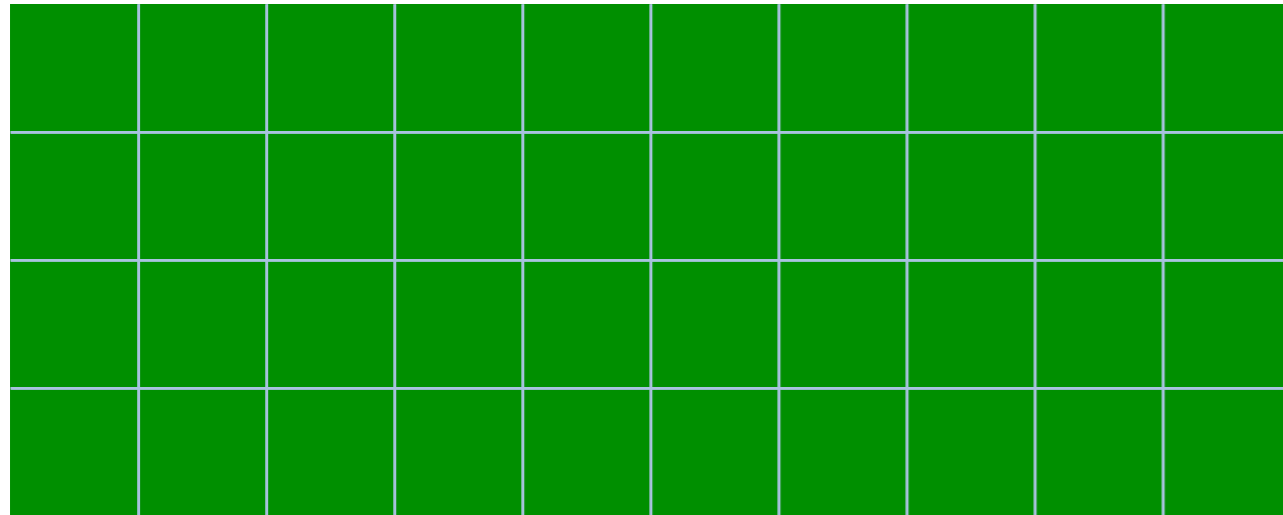
Place in order the countries with the highest population density to the lowest.

Country	Order
Netherlands	3
Vietnam	4
Singapore	1
Spain	5
Bangladesh	2

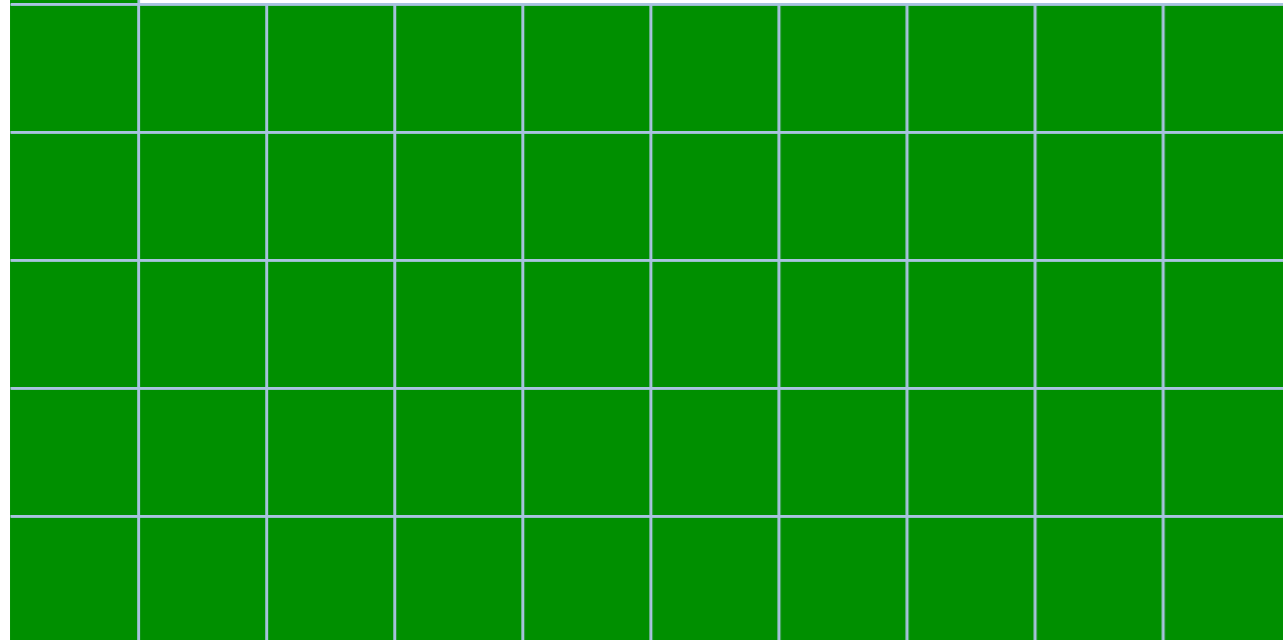
Arithmetic Density



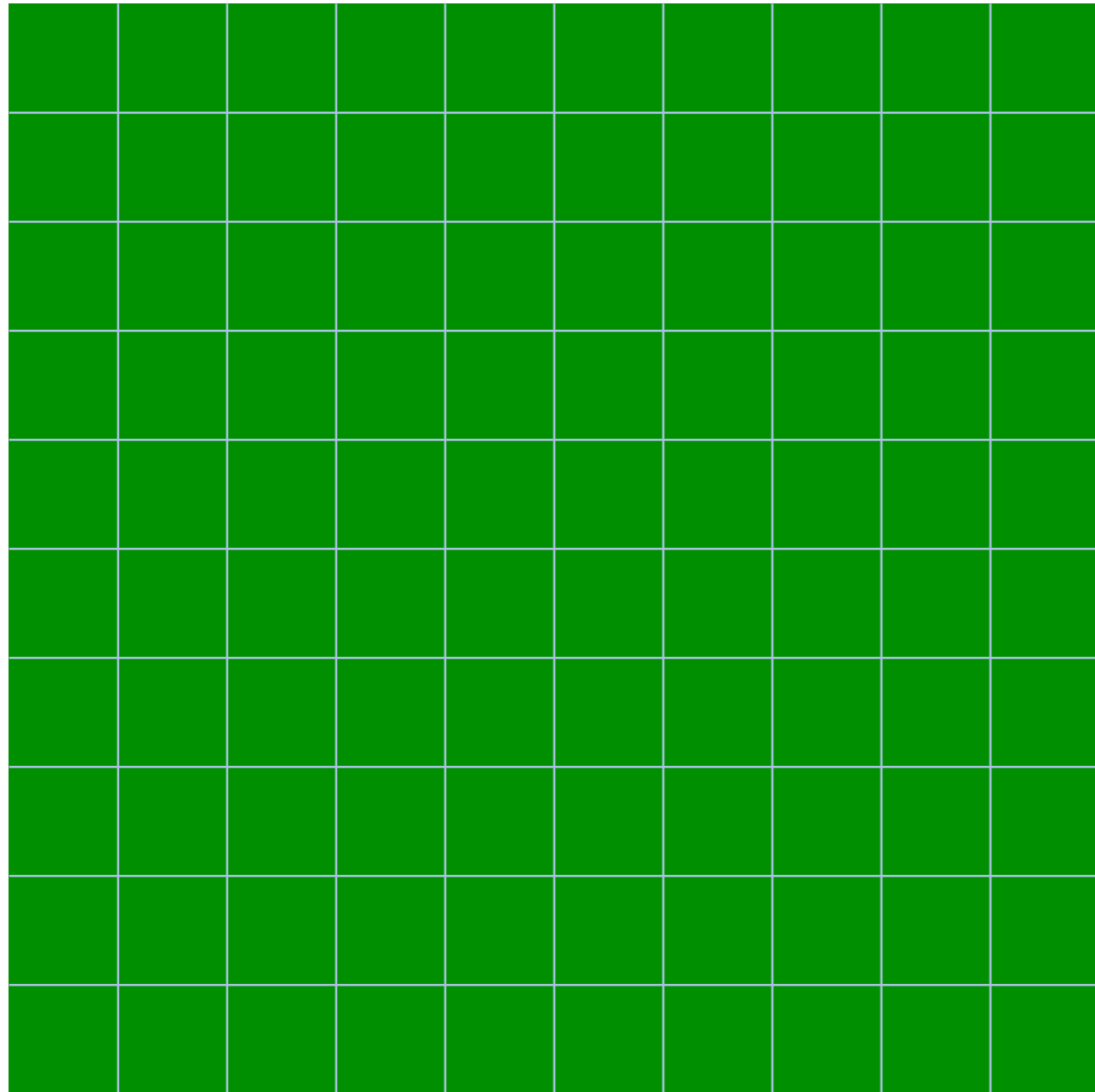
Arithmetic Density



Each square is one square mile.



Arithmetic Density



100 m²

Arithmetic Density

2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2

100 m²

Arithmetic Density

2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2

200 people

100 m²

Arithmetic Density

2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2

200 people



100 m²

Arithmetic Density

2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2

200 people



100 m²

2 people per m²

Arithmetic Density

2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2

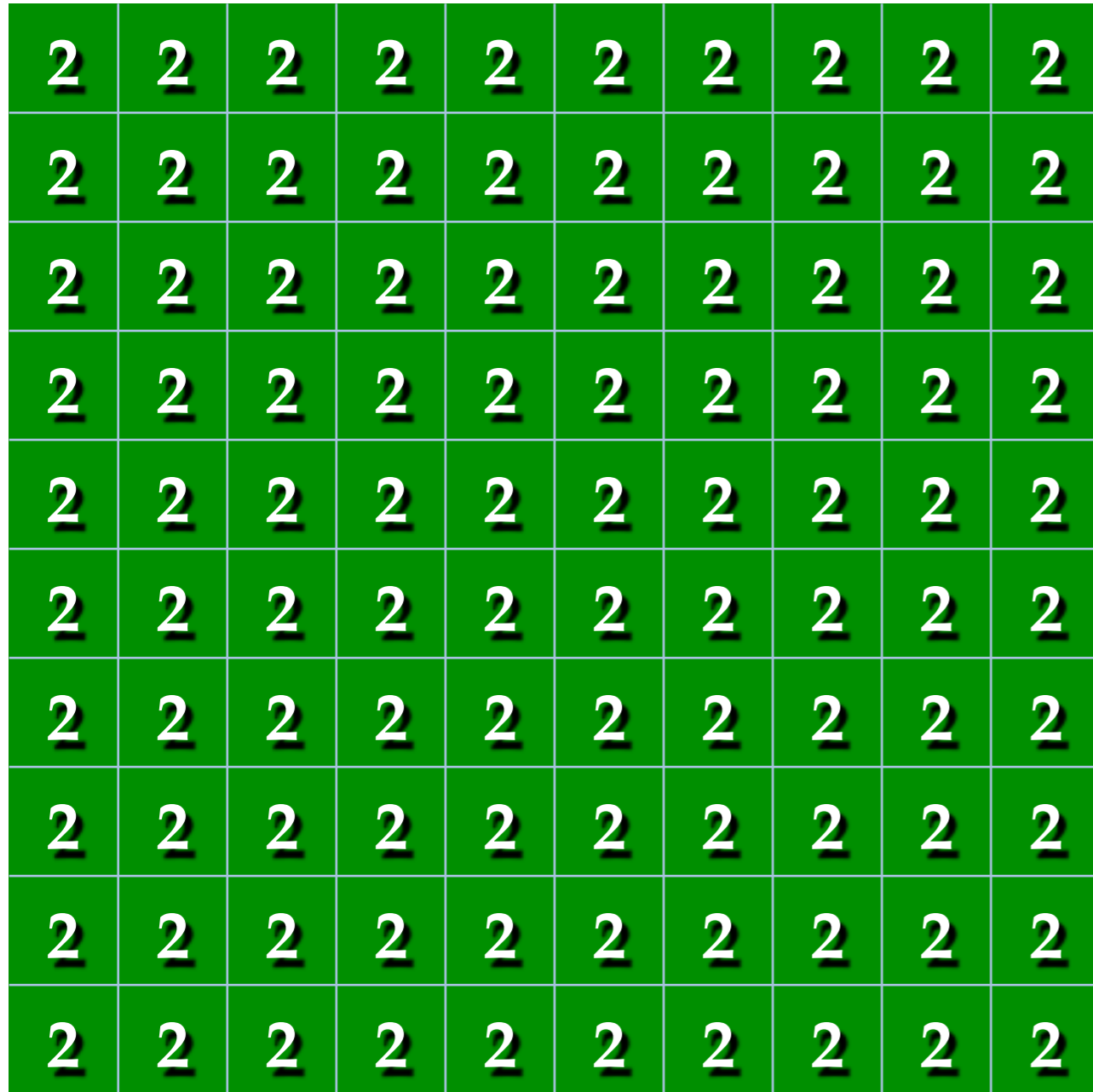
200 people

100 m²

Physiological Density

2 people per m²

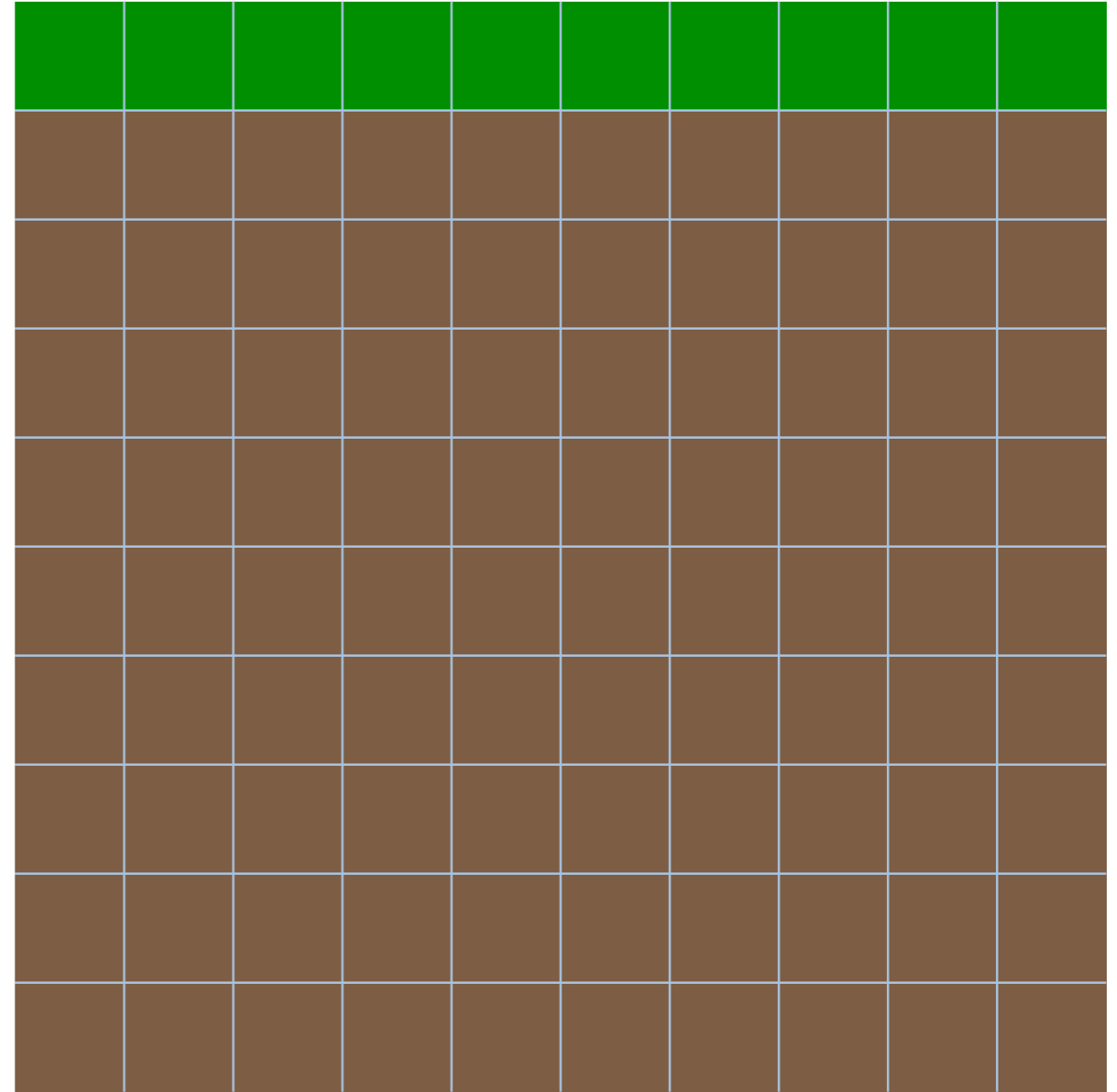
Arithmetic Density



200 people

100 m²

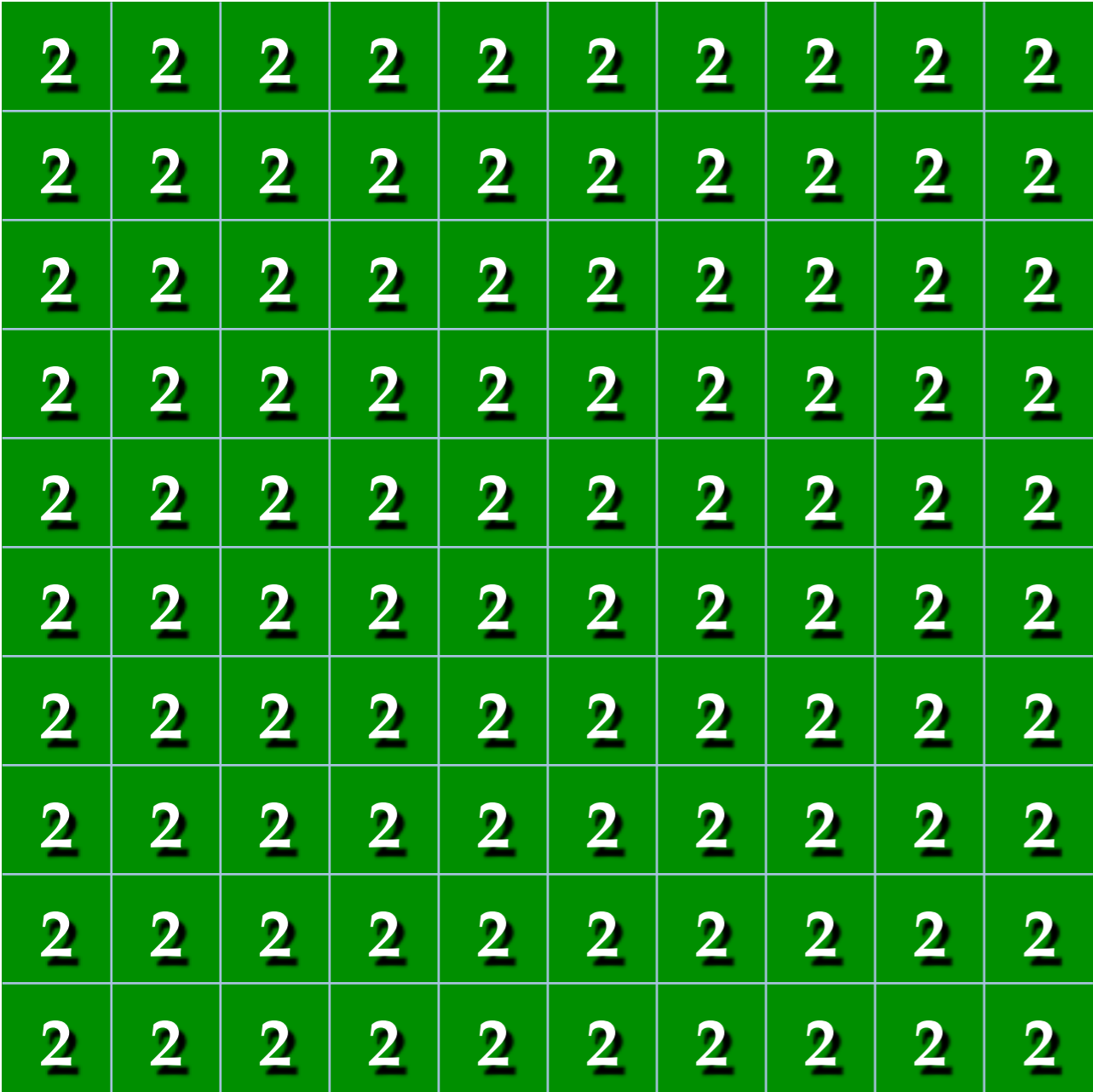
Physiological Density



200 people

2 people per m²

Arithmetic Density



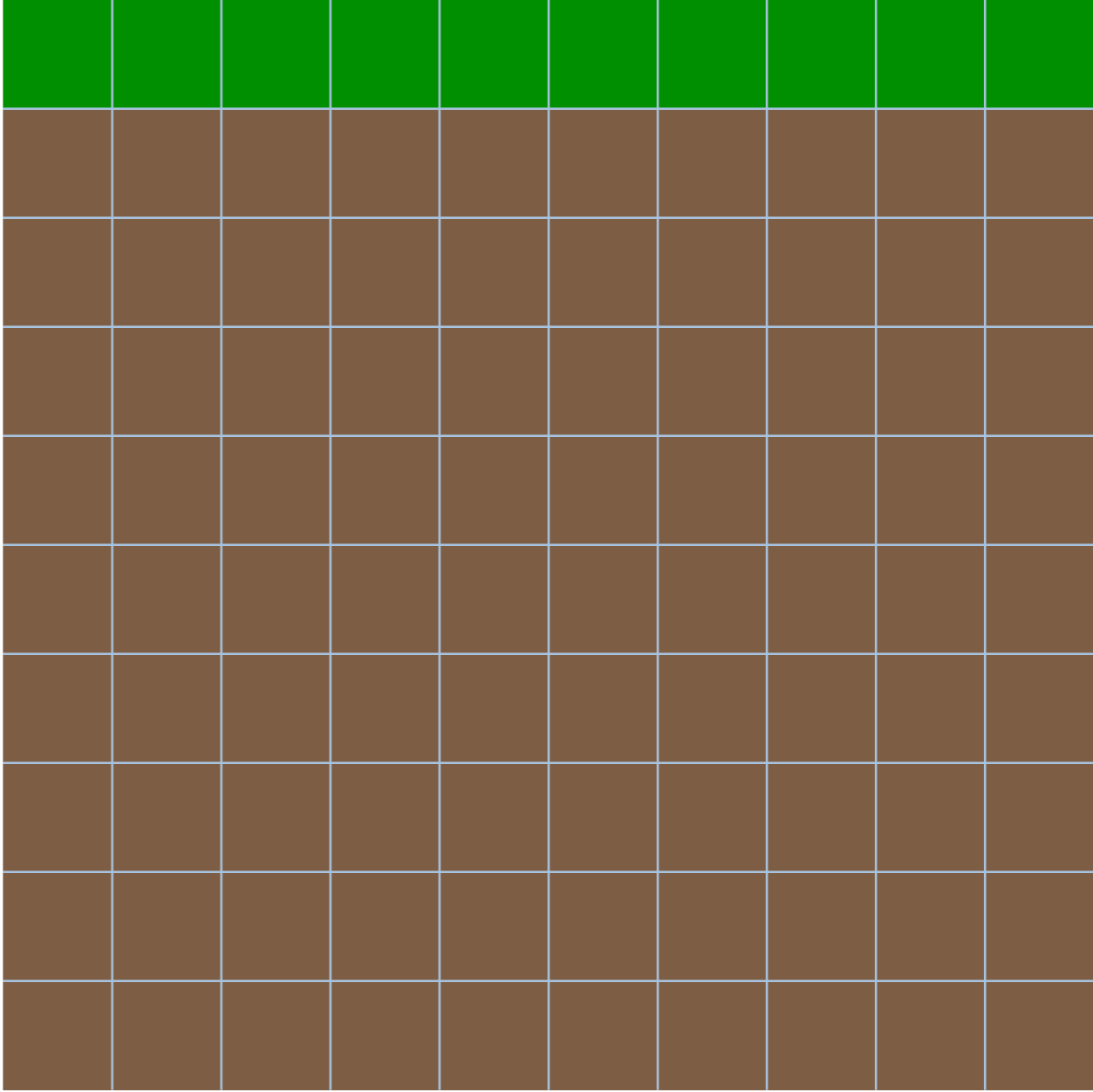
200 people



100 m²

2 people per m²

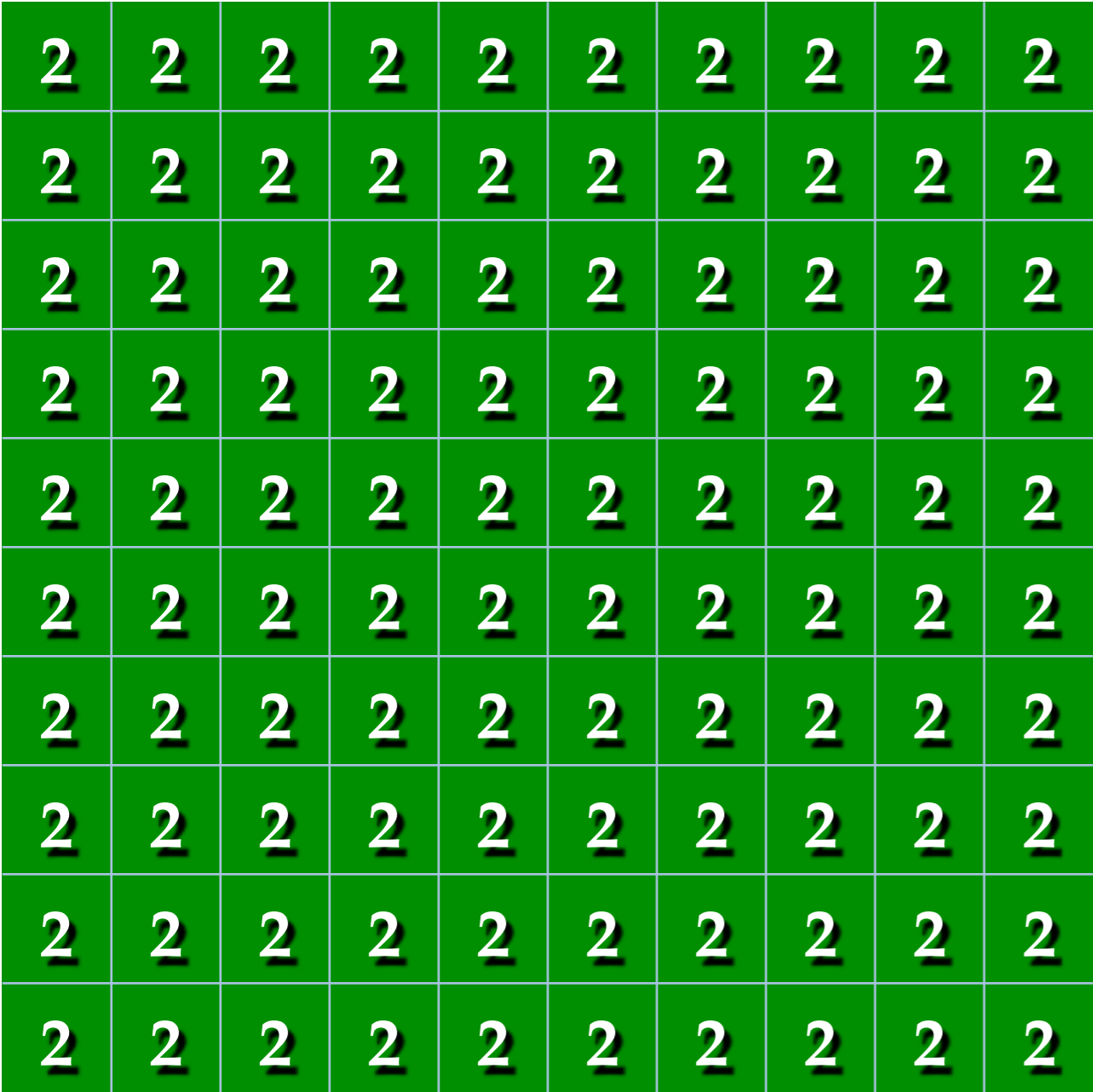
Physiological Density



200 people

10 m²

Arithmetic Density



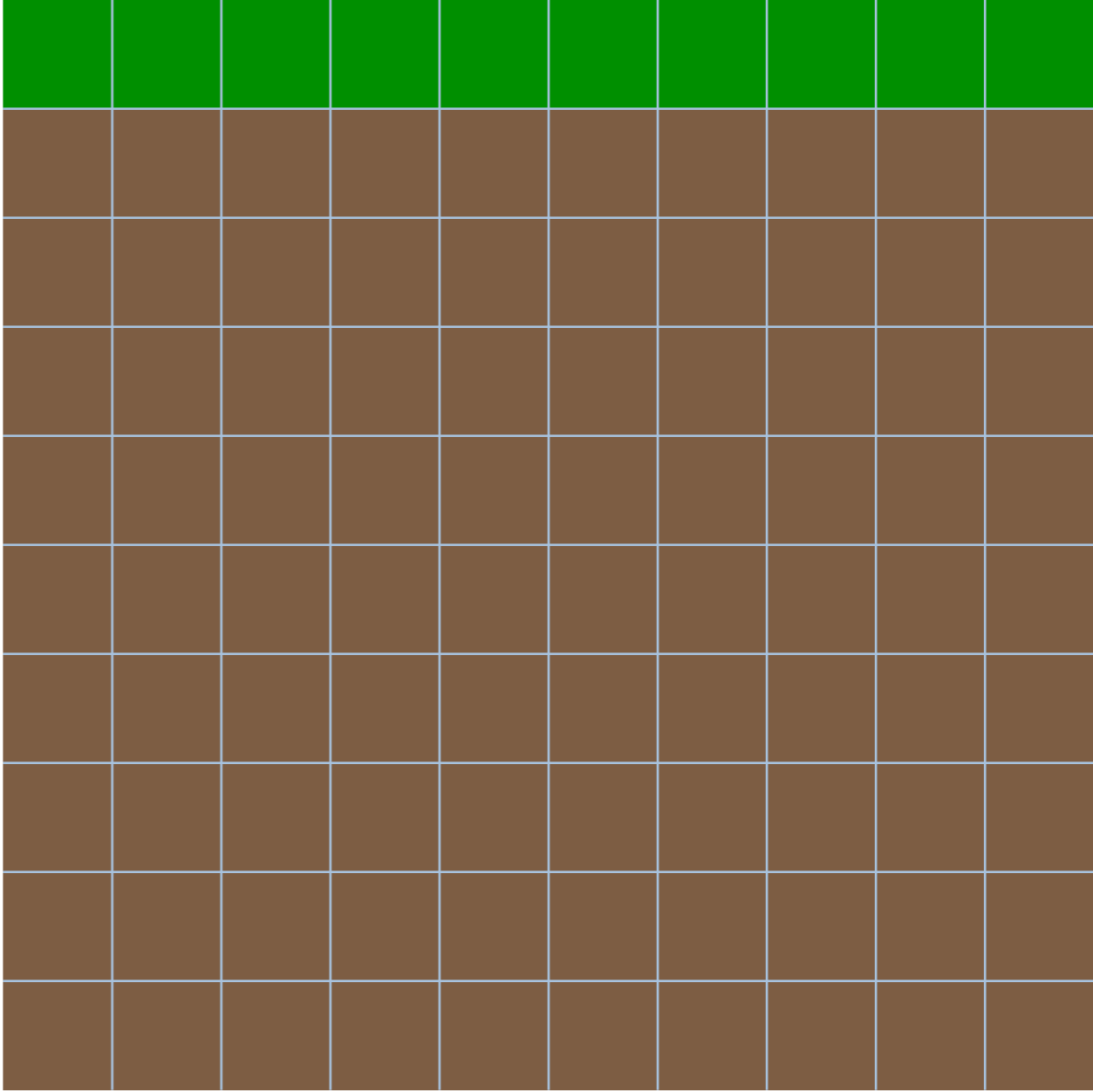
200 people



100 m²

2 people per m²

Physiological Density



200 people



10 m²

2 people per m²

Arithmetic Density

2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2

200 people

100 m²

2 people per m²

Physiological Density

20	20	20	20	20	20	20	20	20	20

**The green boxes
are arable lands.
The brown boxes
are uninhabitable
lands.**

200 people

10 m²

Arithmetic Density

2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2

200 people

100 m²

2 people per m²

Physiological Density

20	20	20	20	20	20	20	20	20	20

**The green boxes
are arable lands.
The brown boxes
are uninhabitable
lands.**

200 people

10 m²

20 people per m²



Student Handout

There are multiple versions of the student handout to choose from, ranging from most challenging to least challenging. Select the one that you believe best fits the level of your students.

Least Challenging Student Handout

All Statistics Showing

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 - 4.0 million
Area in Km - 82,880
Arithmetic Density - 49
Physiological Density - 6,404

B
Population - 78 million
Area in Km - 995,450
Arithmetic Density - 78
Physiological Density - 2,668

C
Population - 300 million
Area in Km - 9,161,923
Arithmetic Density - 32
Physiological Density - 179

D
Population - 33 million
Area in Km - 9,984,671
Arithmetic Density - 4
Physiological Density - 78

1			
Australia		Netherlands	
India		Singapore	

A
Population - 4.4 million
Area in Km - 682.7
Arithmetic Density - 6,483
Physiological Density - 440,998

B
Population - 16 million
Area in Km - 33,883
Arithmetic Density - 484
Physiological Density - 2,205

C
Population - 1.0 billion
Area in Km - 2,973,190
Arithmetic Density - 368
Physiological Density - 753

D
Population - 20 million
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 - 11,437
Arithmetic Density - 75
Physiological Density - 4,601

B
Population - 128 million
Area in Km - 374,744
Arithmetic Density - 340
Physiological Density - 2,924

C
Population - 4 million
Area in Km - 50,660
Arithmetic Density - 79
Physiological Density - 1,803

D
Population - 5.4 million
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 - 1,042
Arithmetic Density - 6,621
Physiological Density - 131,101

B
Population - 300,000
Area in Km - 100,250
Arithmetic Density - 3
Physiological Density - 4,229

C
Population - 145 million
Area in Km - 133,910
Arithmetic Density - 1,078
Physiological Density - 1,946

D
Population - 40 million
Area in Km - 499,542
Arithmetic Density - 81
Physiological Density - 297

Somewhat Challenging Student Handout

One Statistic Missing

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

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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

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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

Somewhat Challenging Student Handout

Population Missing

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 -
Area in Km - 995,450
Arithmetic Density - 78
Physiological Density - 2,668

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

D
Population -
Area in Km - 9,093,507
Arithmetic Density - 4
Physiological Density - 78

1			
Australia		Netherlands	
India		Singapore	

A
Population -
Area in Km - 682.7
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 -
Area in Km - 11,437
Arithmetic Density - 75
Physiological Density - 4,601

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

C
Population -
Area in Km - 50,660
Arithmetic Density - 79
Physiological Density - 1,803

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

3			
Bangladesh		Iceland	
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A
Population -
Area in Km - 1,042
Arithmetic Density - 6,621
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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 -
Area in Km - 499,542
Arithmetic Density - 81
Physiological Density - 297

Challenging Student Handout

**Progressing to where only showing
Population and Physiological Densities**

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.	

1			
Australia		Netherlands	
India		Singapore	

2			
Costa Rica		Japan	
Denmark		Qatar	

3			
Bangladesh		Iceland	
Hong Kong		Spain	

A			
Population - 4.0 million			
Area in Km - 82,880			
Arithmetic Density - 49			
Physiological Density - 6,404			

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

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

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

B			
Population - 78 million			
Area in Km - 995,450			
Arithmetic Density - 78			
Physiological Density - 2,668			

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

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

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

C			
Population - 300 million			
Area in Km - 9,161,923			
Arithmetic Density - 32			
Physiological Density - 179			

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

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

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

D			
Population - 33 million			
Area in Km - 9,093,507			
Arithmetic Density - 4			
Physiological Density - 78			

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

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

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

Most Challenging Student Handout

Only Showing

Population and Physiological Densities

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 -			
Arithmetic Density - 49			
Physiological Density - 6,404			

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

C			
Population -			
Area in Km -			
Arithmetic Density - 32			
Physiological Density - 179			

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

1			
Australia		Netherlands	
India		Singapore	

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

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

C			
Population -			
Area in Km -			
Arithmetic Density - 368			
Physiological Density - 753			

D			
Population -			
Area in Km -			
Arithmetic Density - 3			
Physiological Density - 43			

2			
Costa Rica		Japan	
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A			
Population -			
Area in Km -			
Arithmetic Density - 75			
Physiological Density - 4,601			

B			
Population -			
Area in Km -			
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Population -			
Area in Km -			
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Population -			
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Bangladesh		Iceland	
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Area in Km -			
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B			
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Population -			
Area in Km -			
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Answers

All Statistics Are Showing



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

A	
Population -	4.0 million
Area in Km -	82,880
Arithmetic Density -	49
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B	
Population -	78 million
Area in Km -	995,450
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C	
Population -	300 million
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Physiological Density -	179

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Population -	33 million
Area in Km -	9,093,507
Arithmetic Density -	4
Physiological Density -	78





Example			
Canada		U.A.E.	
Egypt		U.S.A.	
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Population - 4.0 million			
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Arithmetic Density - 78			
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C			
Population - 300 million			
Area in Km - 9,161,923			
Arithmetic Density - 32			
Physiological Density - 179			
D			
Population - 33 million			
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Example			
Canada		U.A.E.	
Egypt		U.S.A.	

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Population - 33 million
Area in Km - 9,093,507
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Example			
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Egypt		U.S.A.	

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Example			
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Egypt		U.S.A.	
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Arithmetic Density - 49			
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Population - 78 million			
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Population - 300 million			
Area in Km - 9,161,923			
Arithmetic Density - 32			
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D			
Population - 33 million			
Area in Km - 9,093,507			
Arithmetic Density - 4			
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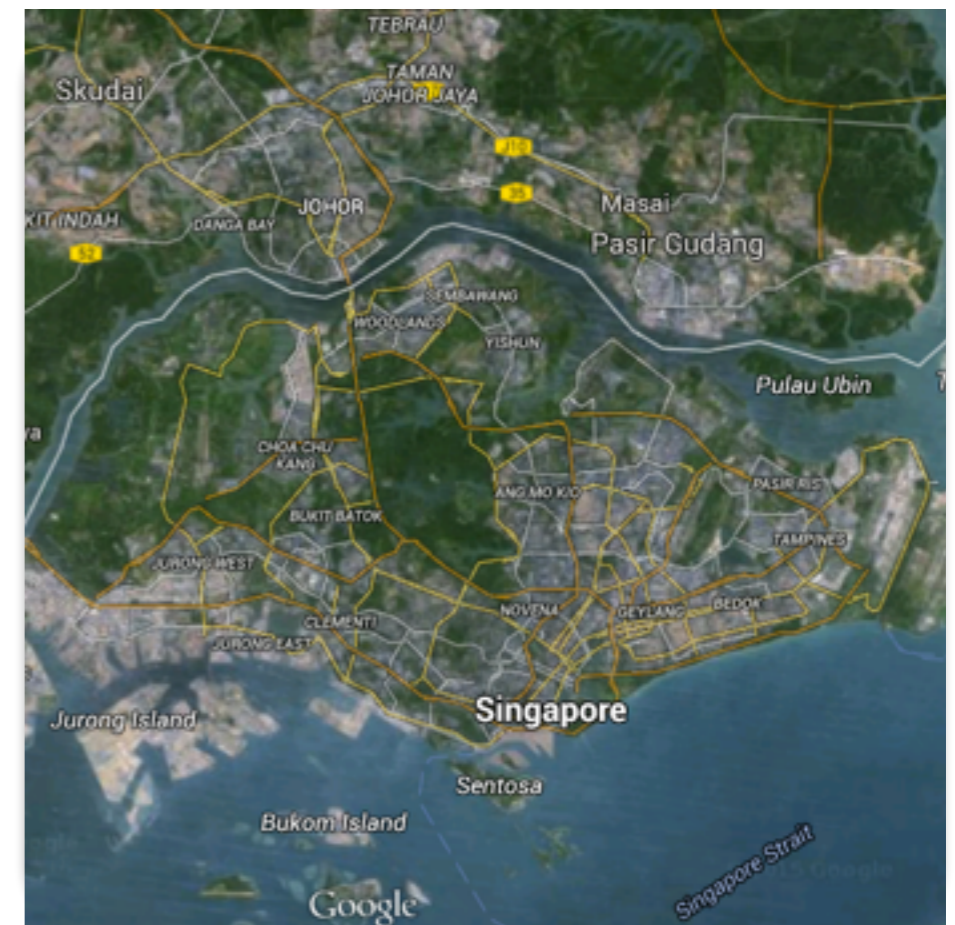
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B			
Population - 16 million			
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Arithmetic Density - 368			
Physiological Density - 753			

D			
Population - 20 million			
Area in Km - 7,617,930			
Arithmetic Density - 3			
Physiological Density - 43			





1			
Australia		Netherlands	
India		Singapore	

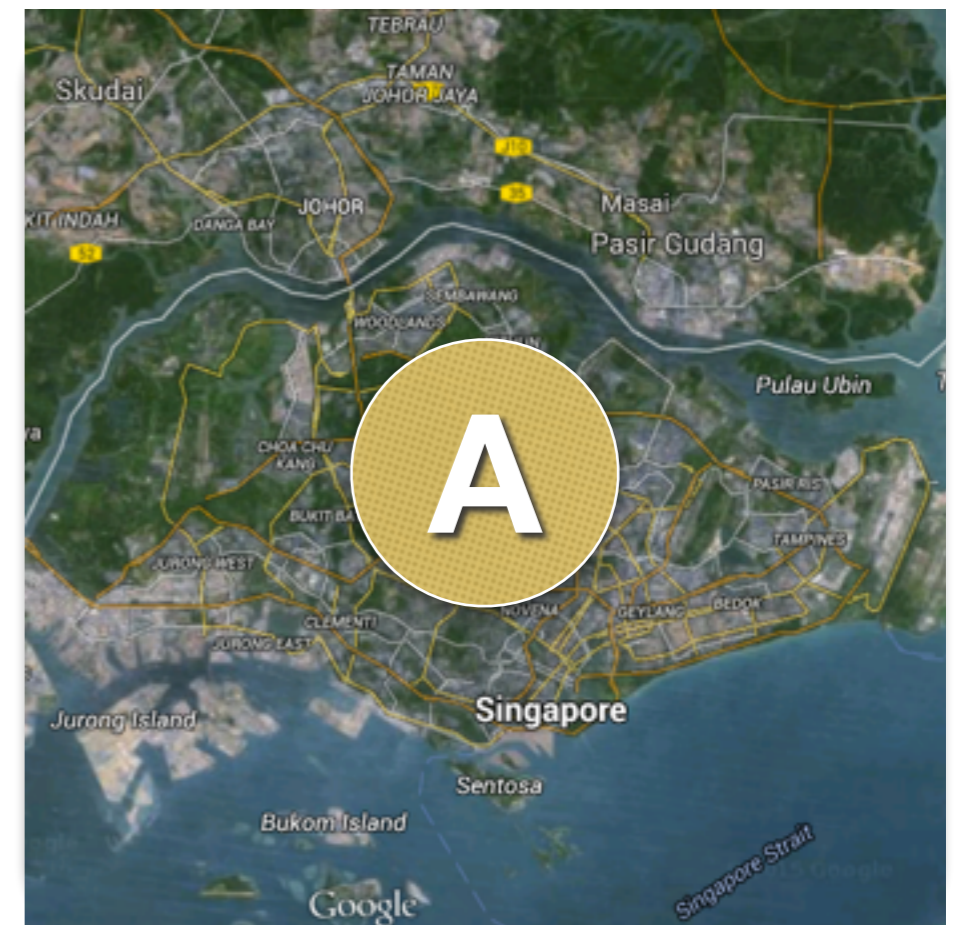
A			
Population - 4.4 million			
Area in Km - 682.7			
Arithmetic Density - 6,483			
Physiological Density - 440,998			



B			
Population - 16 million			
Area in Km - 33,883			
Arithmetic Density - 484			
Physiological Density - 2,205			



C			
Population - 1.0 billion			
Area in Km - 2,973,190			
Arithmetic Density - 368			
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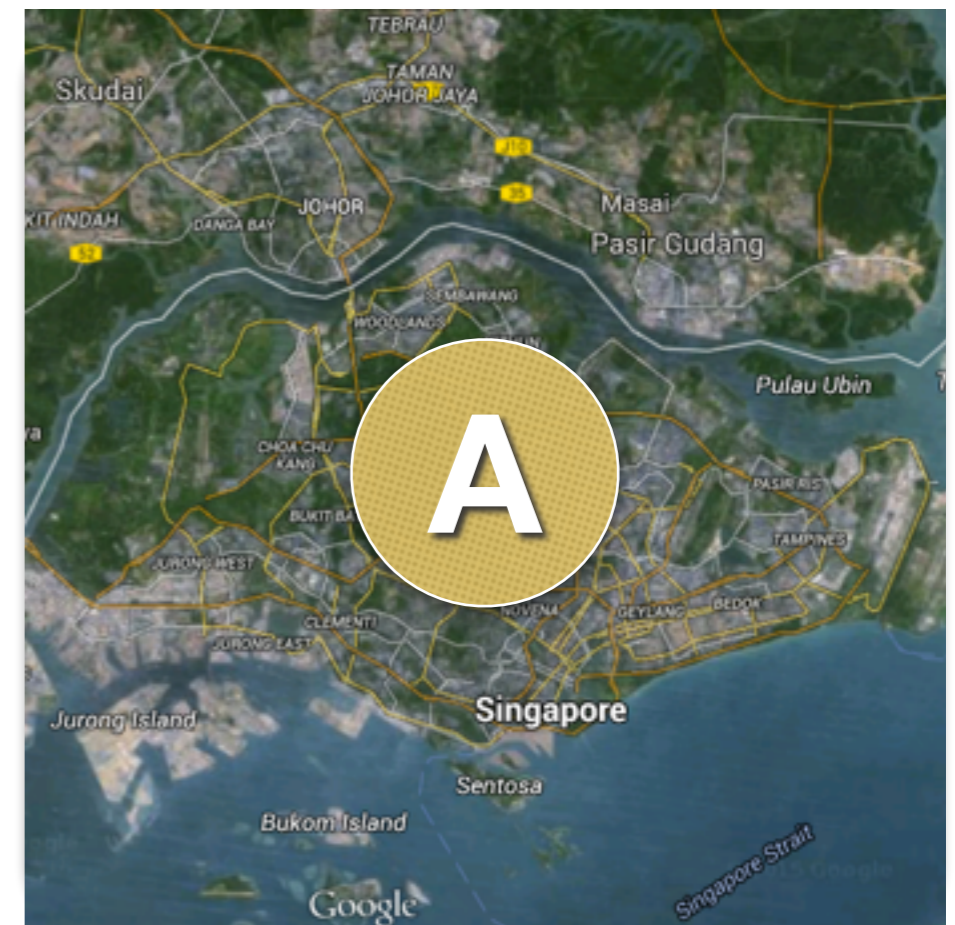
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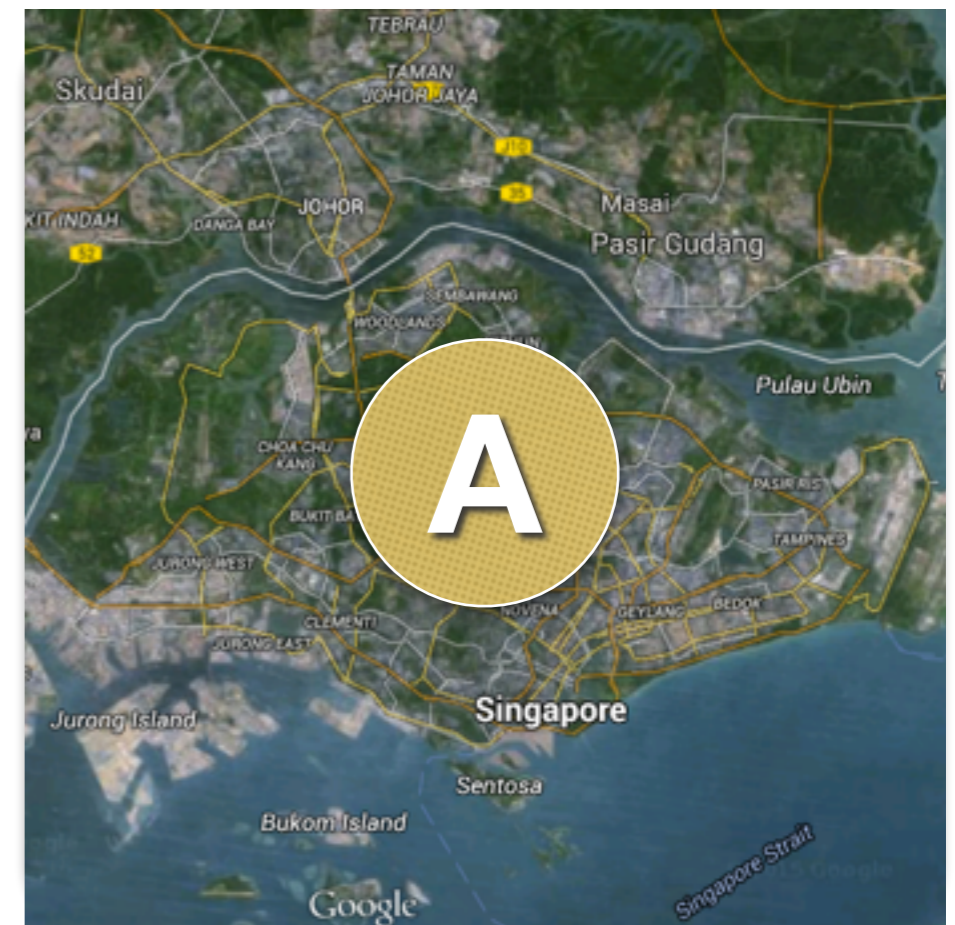
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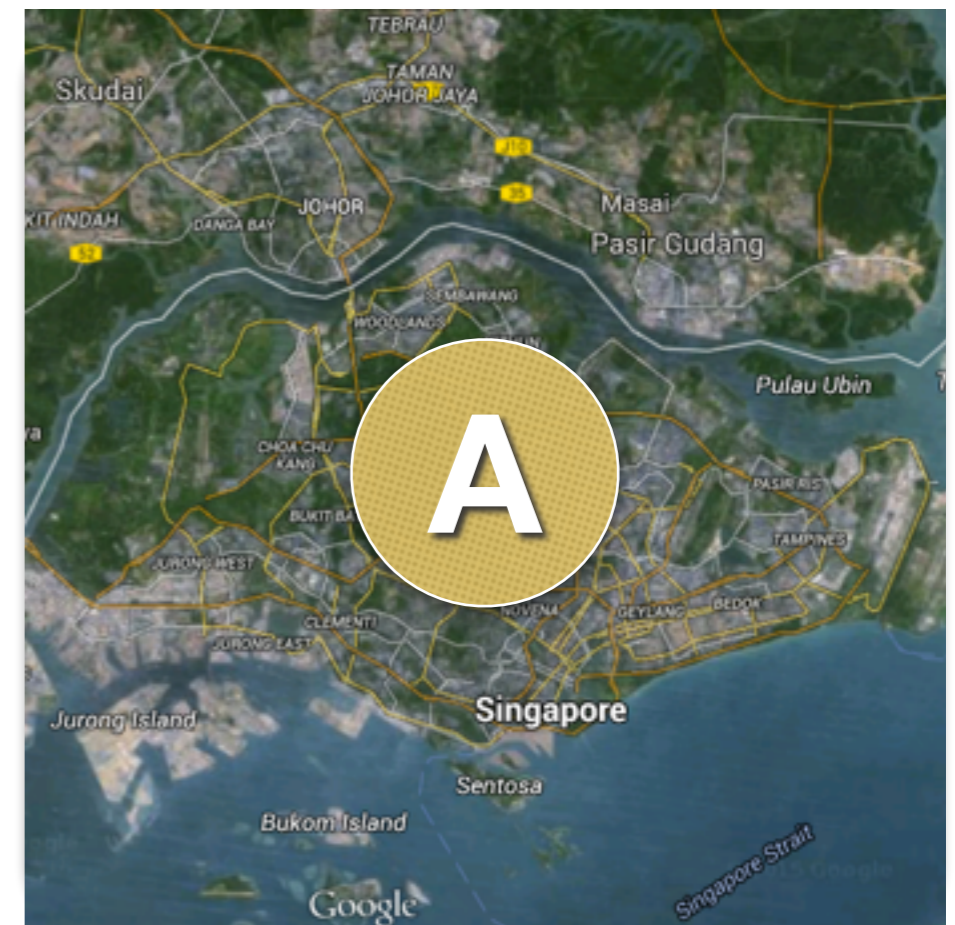
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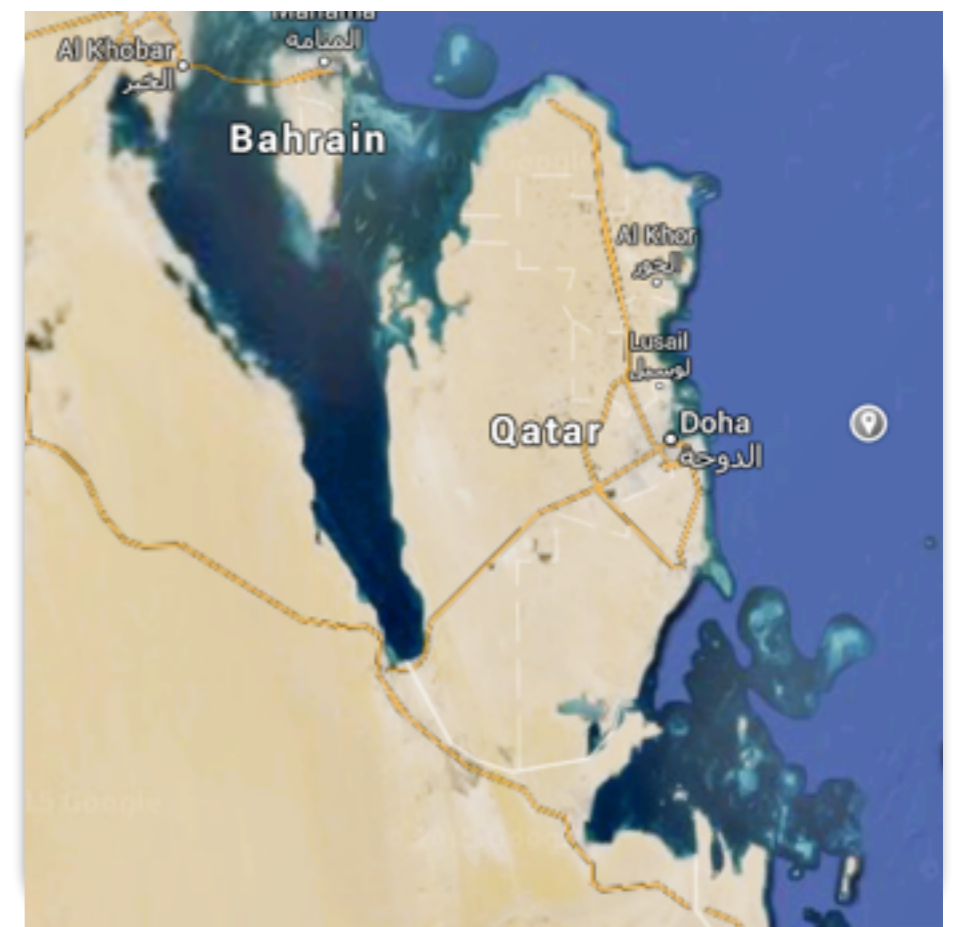
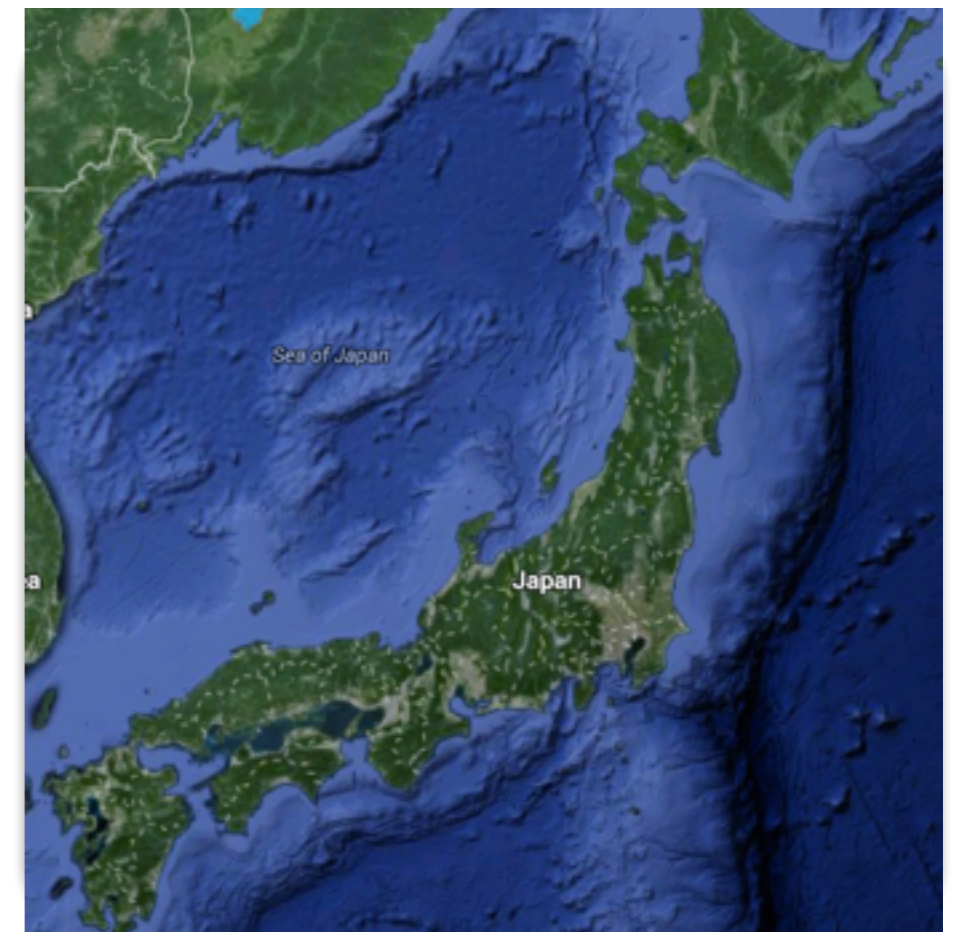
2			
Costa Rica		Japan	
Denmark		Qatar	

A			
Population - 863,051			
Area in Km - 11,437			
Arithmetic Density - 75			
Physiological Density - 4,601			

B			
Population - 128 million			
Area in Km - 374,744			
Arithmetic Density - 340			
Physiological Density - 2,924			

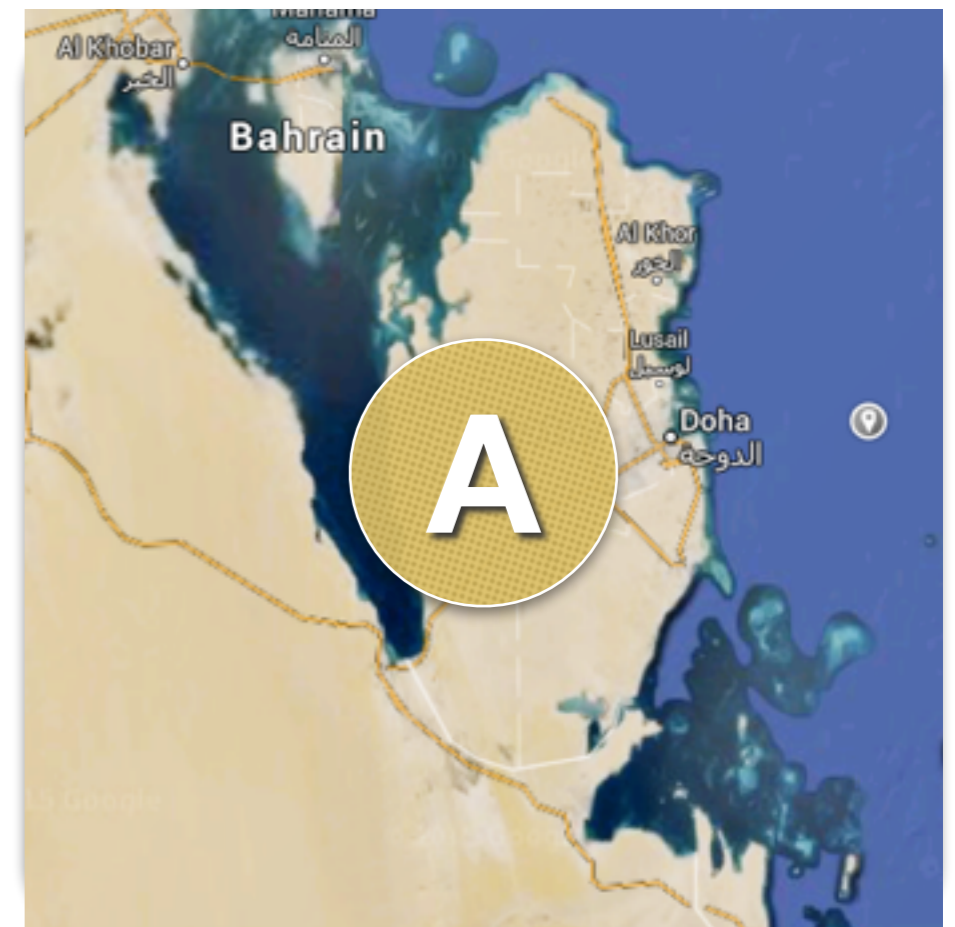
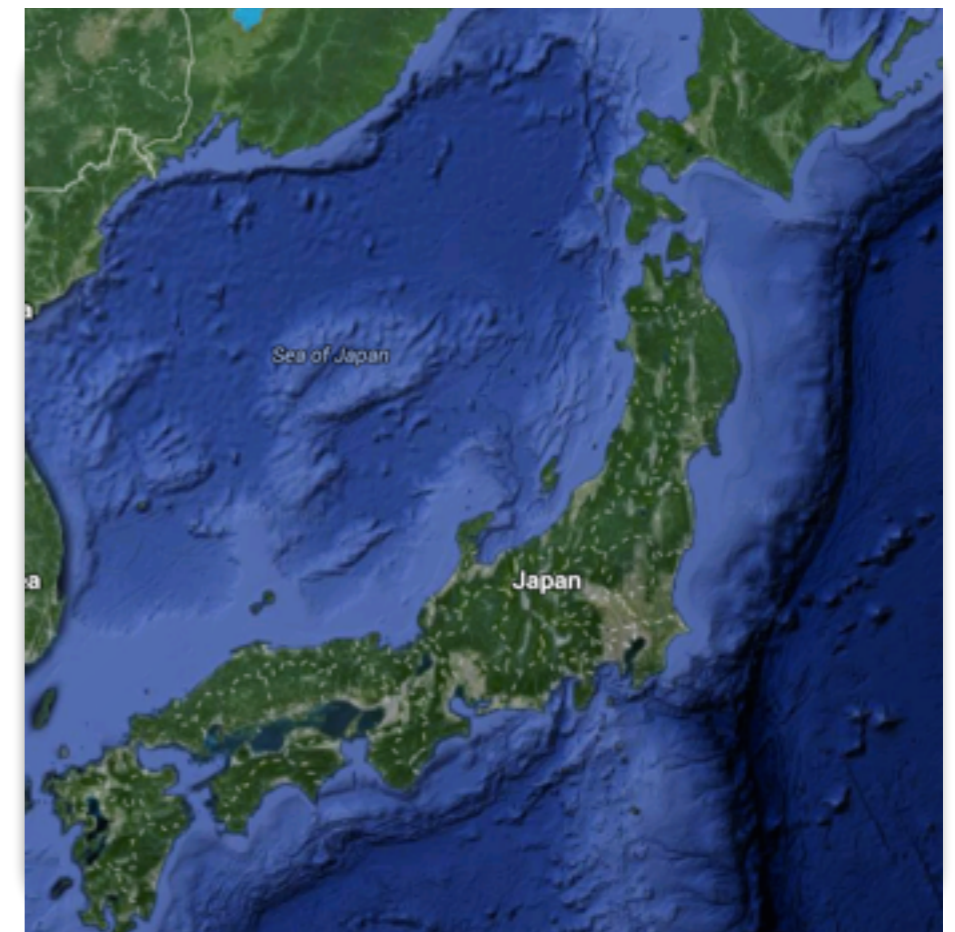
C			
Population - 4 million			
Area in Km - 50,660			
Arithmetic Density - 79			
Physiological Density - 1,803			

D			
Population - 5.4 million			
Area in Km - 42,394			
Arithmetic Density - 128			
Physiological Density - 244			





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Denmark		Qatar	
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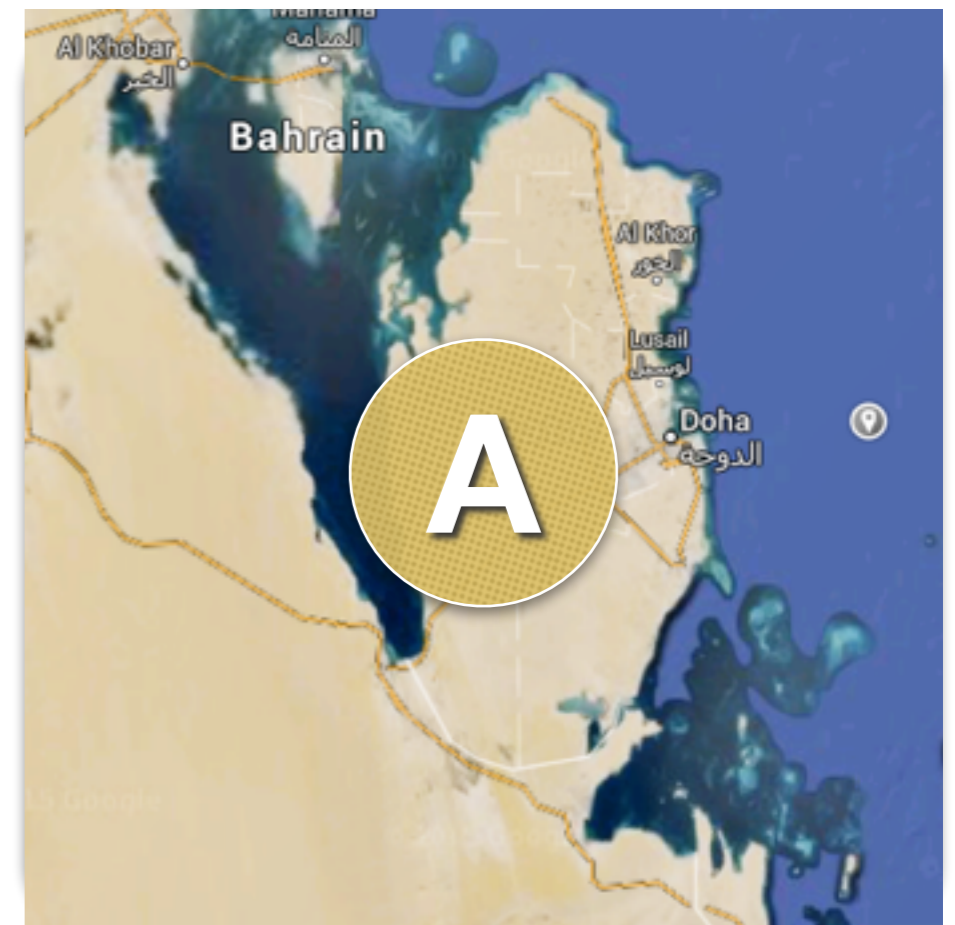
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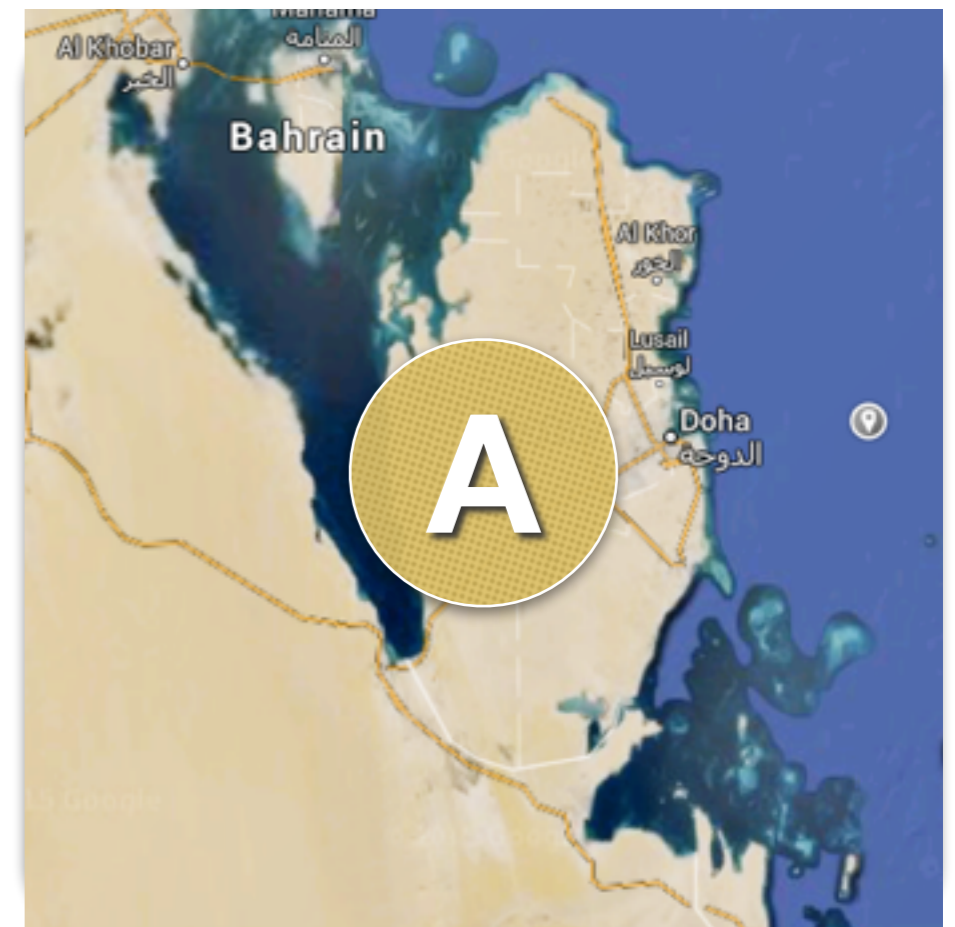
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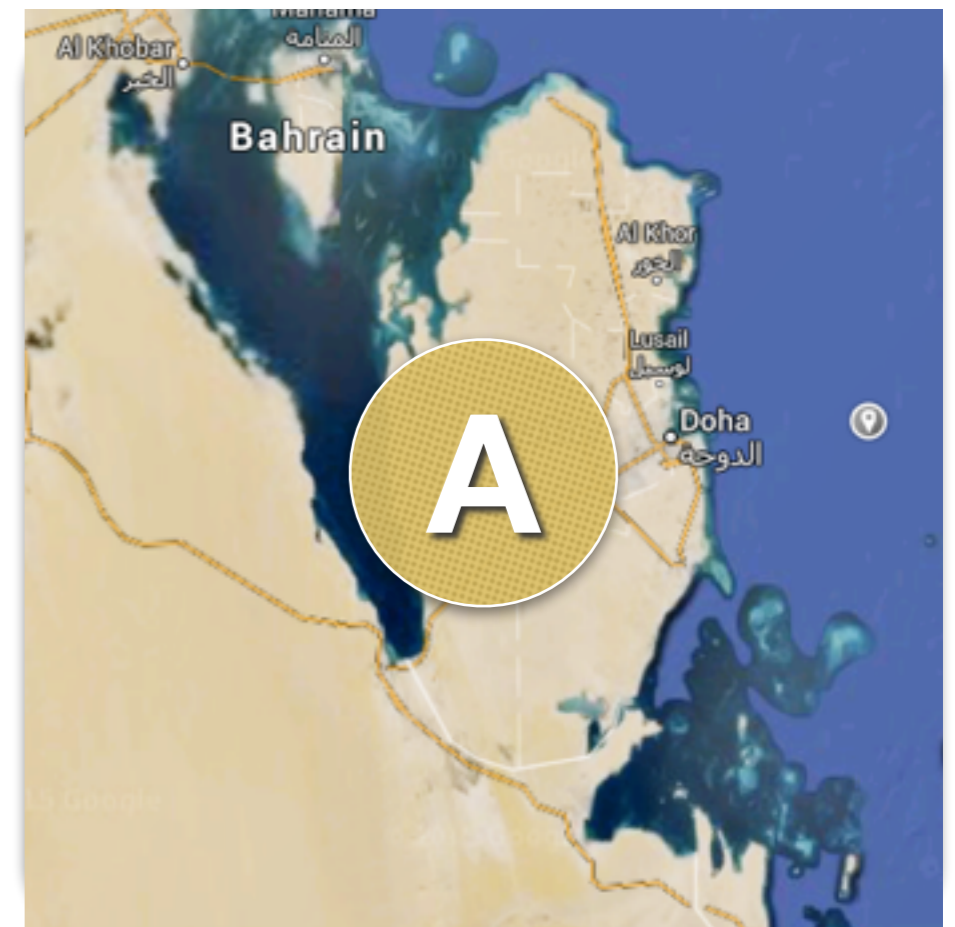


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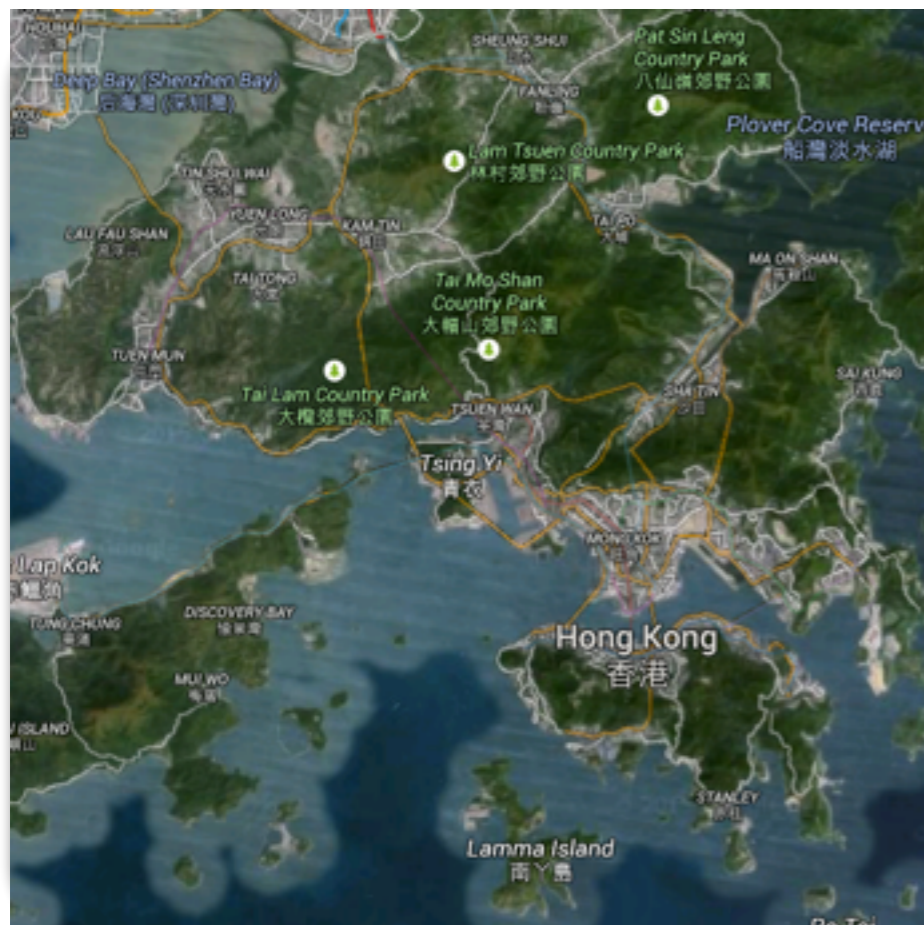
3			
Bangladesh		Iceland	
Hong Kong		Spain	

A			
Population - 6.8 million			
Area in Km - 1,042			
Arithmetic Density - 6,621			
Physiological Density - 131,101			

B			
Population - 300,000			
Area in Km - 100,250			
Arithmetic Density - 3			
Physiological Density - 4,229			

C			
Population - 145 million			
Area in Km - 133,910			
Arithmetic Density - 1,078			
Physiological Density - 1,946			

D			
Population - 40 million			
Area in Km - 499,542			
Arithmetic Density - 81			
Physiological Density - 297			





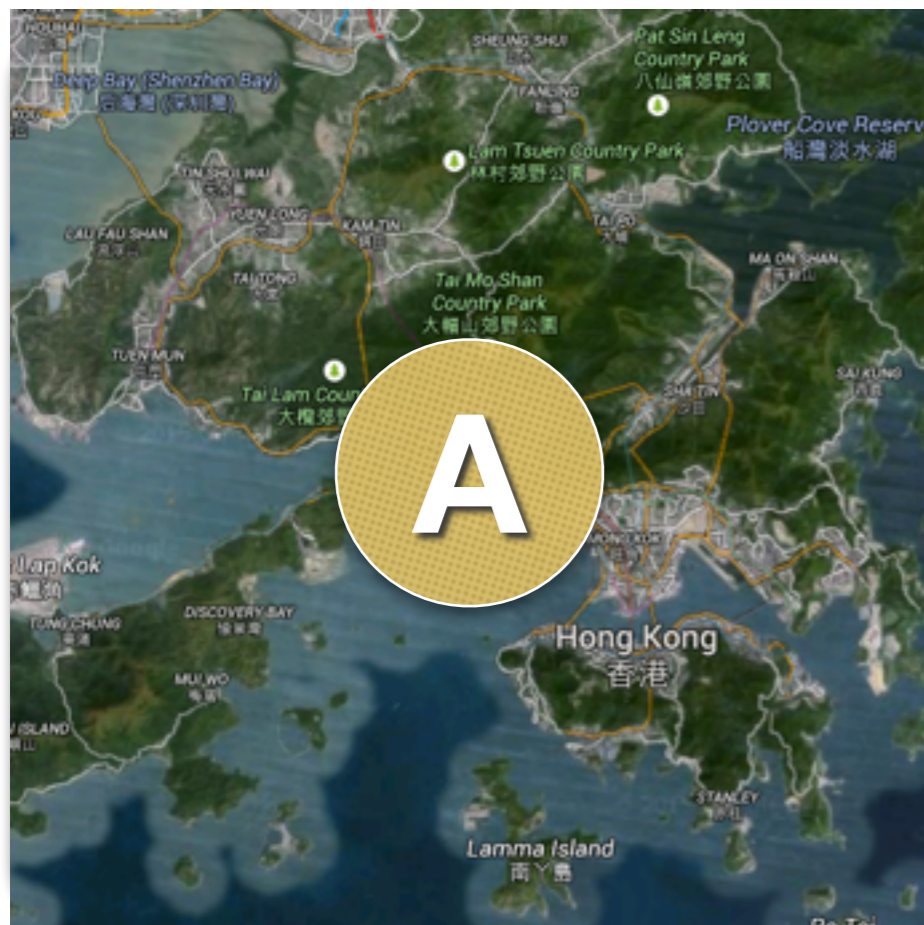
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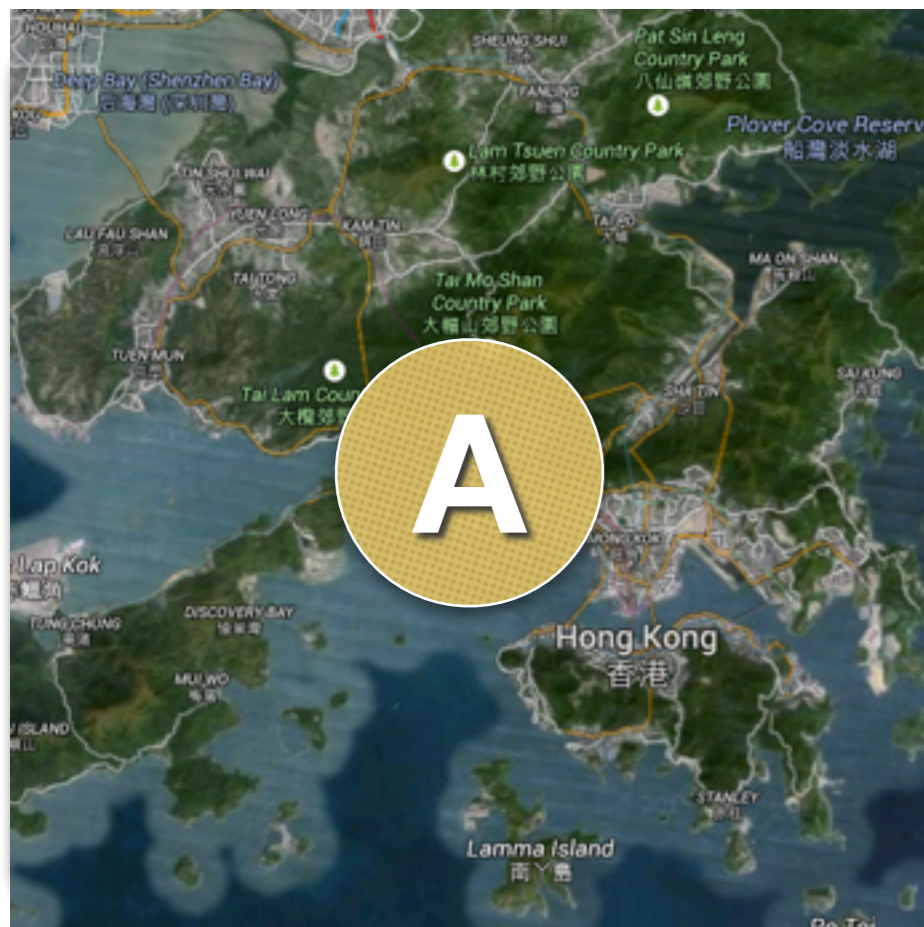
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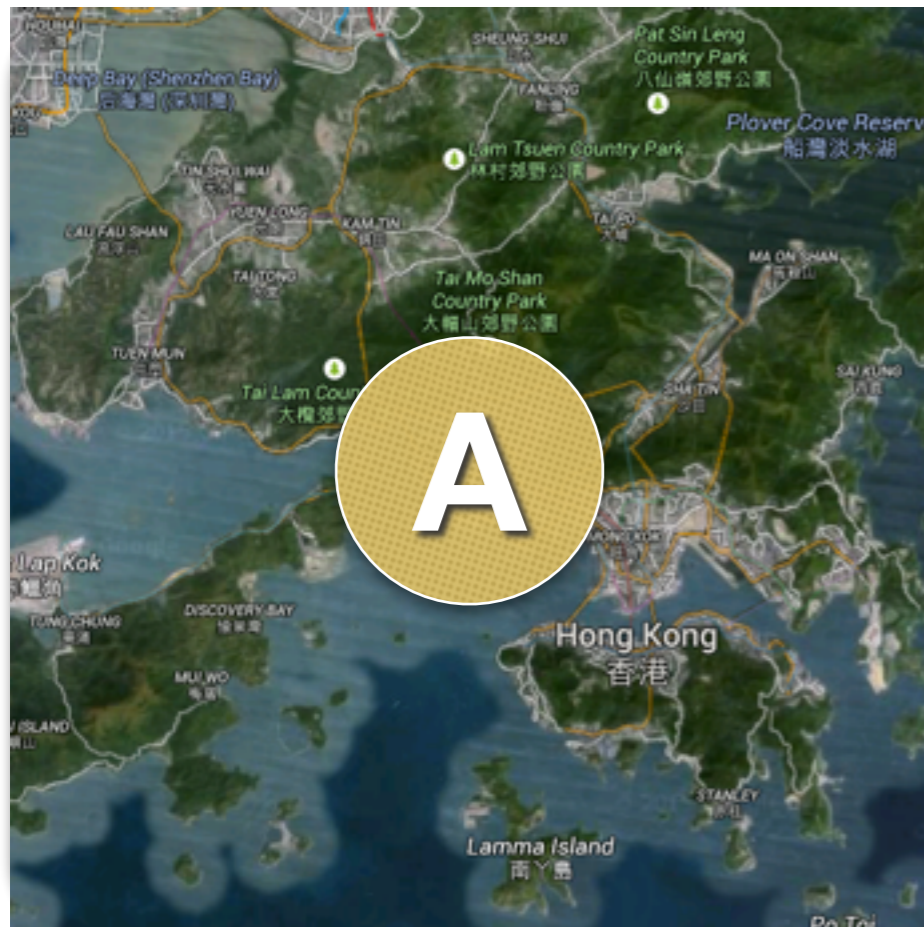
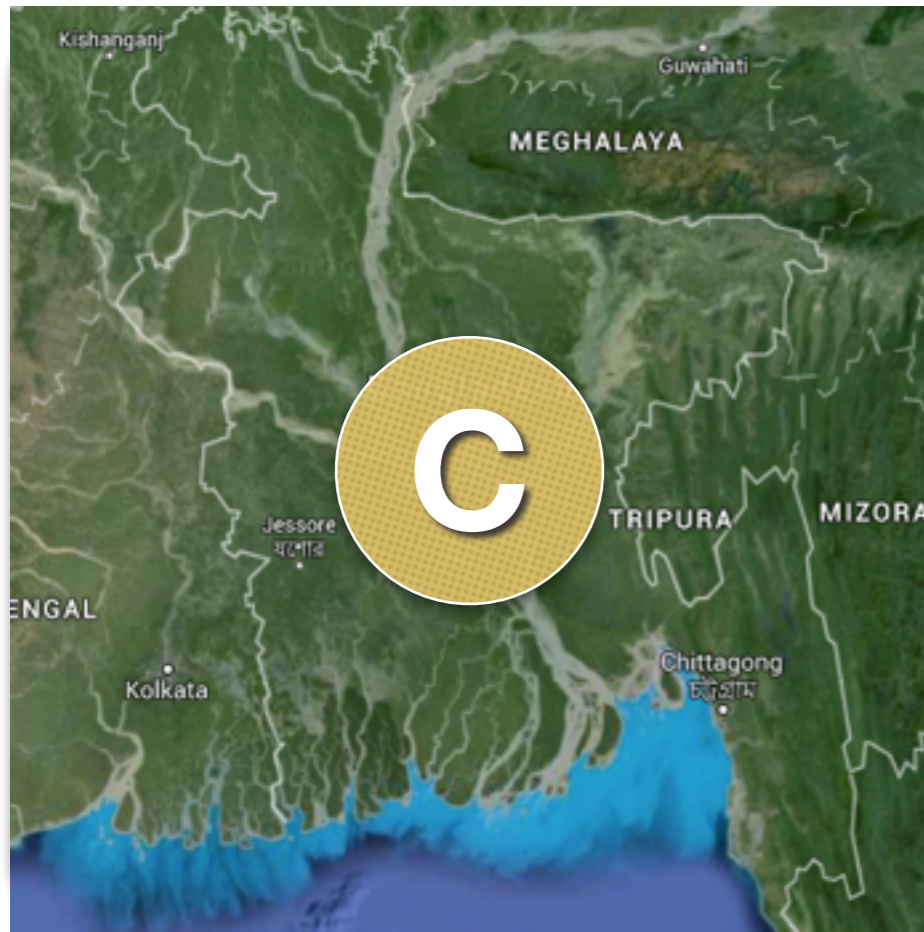
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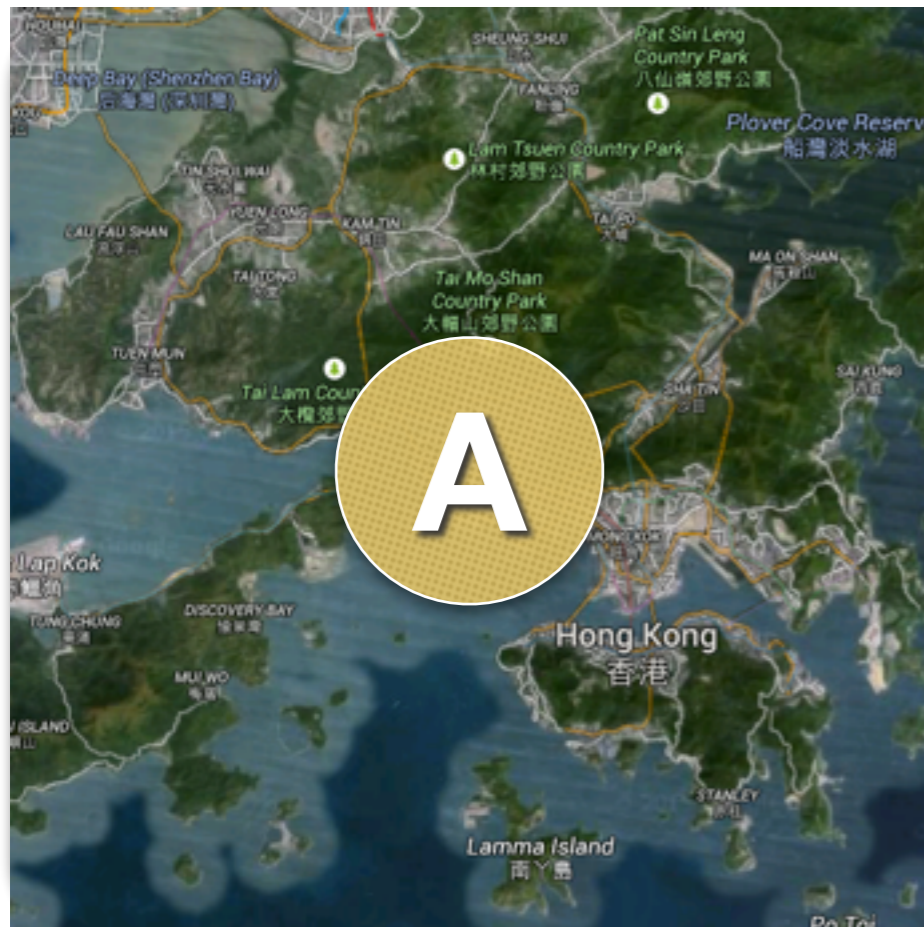
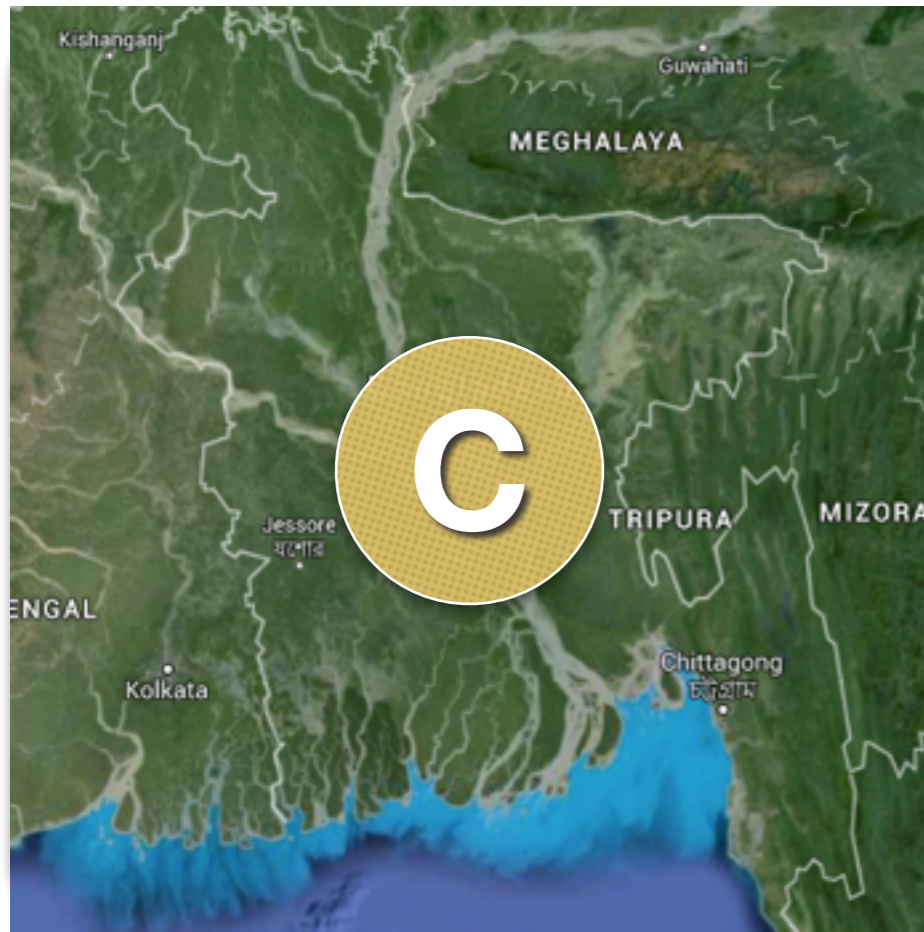
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Population and Physiological Densities Activity – Match the country with the correct statistics below each set of countries.

Example

Canada	D	U.A.E.	A
Egypt	B	U.S.A.	C

A

Population - 4.0 million
Area in Km - 82,880
Arithmetic Density - 49
Physiological Density - 6,404

B

Population - 78 million
Area in Km - 995,450
Arithmetic Density - 78
Physiological Density - 2,668

C

Population - 300 million
Area in Km - 9,161,923
Arithmetic Density - 32
Physiological Density - 179

D

Population - 33 million
Area in Km - 9,093,507
Arithmetic Density - 4
Physiological Density - 78

1

Australia	D	Netherlands	B
India	C	Singapore	A

A

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Physiological Density - 440,998

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Population - 16 million
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Denmark	D	Qatar	A

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Bangladesh	C	Iceland	B
Hong Kong	A	Spain	D

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INDONESIA

Crude Birth Rates	20
Crude Death Rates	6
Net Migration Rate	-1
Fertility Rate	2.6
Ages Less Than 15	29
Ages Greater Than 65	5

UNITED STATES

Crude Birth Rates	13
Crude Death Rates	8
Net Migration Rate	3
Fertility Rate	1.9
Ages Less Than 15	19
Ages Greater Than 65	14

UNITED ARAB EMIRATES

Crude Birth Rates	15
Crude Death Rates	1
Net Migration Rate	22
Fertility Rate	1.8
Ages Less Than 15	16
Ages Greater Than 65	0

Crude Birth Rates	9
Crude Death Rates	10
Net Migration Rate	3
Fertility Rate	1.4
Ages Less Than 15	14
Ages Greater Than 65	21

What county has the following statistics?

- A) CANADA**
- B) FRANCE**
- C) ITALY**
- D) MONACO**
- E) UK**

IRELAND

Crude Birth Rates	15
Crude Death Rates	7
Net Migration Rate	-7
Fertility Rate	2.0
Ages Less Than 15	22
Ages Greater Than 65	12

JAPAN

Crude Birth Rates	8
Crude Death Rates	10
Net Migration Rate	1
Fertility Rate	1.4
Ages Less Than 15	13
Ages Greater Than 65	26

INDONESIA

Crude Birth Rates	20
Crude Death Rates	6
Net Migration Rate	-1
Fertility Rate	2.6
Ages Less Than 15	29
Ages Greater Than 65	5

UNITED STATES

Crude Birth Rates	13
Crude Death Rates	8
Net Migration Rate	3
Fertility Rate	1.9
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Ages Greater Than 65	14

UNITED ARAB EMIRATES

Crude Birth Rates	15
Crude Death Rates	1
Net Migration Rate	22
Fertility Rate	1.8
Ages Less Than 15	16
Ages Greater Than 65	0

ITALY

Crude Birth Rates	9
Crude Death Rates	10
Net Migration Rate	3
Fertility Rate	1.4
Ages Less Than 15	14
Ages Greater Than 65	21

IRELAND

Crude Birth Rates	15
Crude Death Rates	7
Net Migration Rate	-7
Fertility Rate	2.0
Ages Less Than 15	22
Ages Greater Than 65	12

JAPAN

Crude Birth Rates	8
Crude Death Rates	10
Net Migration Rate	1
Fertility Rate	1.4
Ages Less Than 15	13
Ages Greater Than 65	26

What county has the following statistics?

- A) CANADA**
- B) FRANCE**
- C) ITALY**
- D) MONACO**
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