

CHAPTER 8: HUMAN GEOGRAPHY

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CHAPTER 8 - EXERCISE 1 - *Significance*

THE SIGNIFICANCE OF DEMOGRAPHIC STATISTICS

Calculate the following 2017 statistics and then explain the significance of each one.

1. Population Density of British Columbia

Approximate population: 4,800,000

Total land area: 944,735 square kilometers (km²)

a) British Columbia's population density is: _____

b) Explain the significance of this statistic. How is this information used?

2. British Columbia's Birth Rate

Number of babies born in 2017: 45,200

Approximate population: 4,800,000

a) British Columbia's birth rate is: _____

b) Explain the significance of this statistic. How is this information used?

3. British Columbia's Death Rate

Number of deaths in 2017: 38,500

Approximate population: 4,800,000

a) British Columbia's death rate is: _____

b) Explain the significance of this statistic. How is this information used?

Name _____ Block _____ Date _____

CHAPTER 8 - EXERCISE 1 - Significance
THE SIGNIFICANCE OF DEMOGRAPHIC STATISTICS

4. British Columbia's Rate of Natural Increase

Birth rate: (use the answer to question 2. a)

Death rate: (use the answer to question 3. a)

a) British Columbia's rate of natural increase is: _____

b) Explain the significance of this statistic. How is this information used?

5. British Columbia's Dependency Percentage

Number of people aged 0 to 19: 960,000

Number of people aged 65 and up: 880,000

a) British Columbia's dependency percentage is: _____

b) Explain the significance of this statistic. How is this information used?

6. British Columbia's GDP per capita

Total GDP in 2017: CA\$263,700,000,000 (US\$207,300,000,000)

Approximate population: 4,800,000

a) British Columbia's GDP per capita is: _____

b) Explain the significance of this statistic. How is this information used?

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CHAPTER 8 - EXERCISE 2 - Evidence

HUMAN DEVELOPMENT AND WORLD HAPPINESS REPORTS

This exercise requires the use of online sources. These sources can be found here:

UN Human Development Report

http://hdr.undp.org/sites/default/files/2016_human_development_report.pdf

UN World Happiness Report

<http://worldhappiness.report/wp-content/uploads/sites/2/2017/03/HR17.pdf>

HUMAN DEVELOPMENT REPORT

1. What is the Human Development Report and what does it measure?

2. Refer to the Human Development Index on pages 198-201 of the Human Development Report (see website link above) to answer the following questions:

a) What country has the highest human development? _____

b) What place does Canada rank on the human development index? _____

c) Of the 51 countries that have "very high human development," which continent are most of these countries located in?

d) Of the 40 countries that have "low human development," which continent are most of these countries located in?

WORLD HAPPINESS REPORT

3. What is the World Happiness Report and what does it measure?

4. In the 2017 report (p. 20-22), which country ranked the highest? _____

5. What place did each of the following countries rank in overall happiness?

a) Canada: _____ e) South Korea: _____

b) The United States: _____ f) Peru: _____

c) The United Kingdom: _____ g) India: _____

d) France: _____ h) China: _____

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CHAPTER 8 - EXERCISE 3 - *Continuity and Change*
THE DEVELOPMENT OF A NATION

1. Provide two characteristics of each stage of the demographic transition model.

Stage 1: _____

Stage 2: _____

Stage 3: _____

Stage 4: _____

Stage 5: _____

2. In stage 2 of the demographic transition model, which factors are most responsible for rapid population growth?

3. When was Canada in stage 2 of the demographic transition model?

4. Which stage is Canada in today? Explain how you know.

5. Why do countries in stage 5 sometimes experience population decline?

6. How do technological and scientific advancements lead to lower death rates?

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CHAPTER 8 - EXERCISE 4 - *Cause and Consequence*

TODAY'S ENVIRONMENTAL CHALLENGES

1. What is meant by the term "greenhouse effect"?

2. Explain the consequences of burning fossil fuels.

3. How are forest fires and floods a consequence of global warming?

4. Fill in the blanks:

a) _____ and the United States both emit about twice as much carbon dioxide per capita than _____.

b) _____ pose a significant environmental threat to British Columbia.

c) _____ can be replaced or replenished over time.

d) Today the world is, on average, _____ degrees Celsius warmer than it was before the Industrial Revolution.

e) The main goal of the _____ was to keep the world's average temperature from rising any more than _____ degrees Celsius above pre-industrial levels.

f) That the world should slowly transition from an oil-dependent economy to a renewable-energy economy is a belief held by _____.

g) The _____ withdrew from the Paris Agreement in June 2017.

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CHAPTER 8 - EXERCISE 5 - *Perspective*

THE STAGES OF DEVELOPMENT

Today Canada is in the fourth stage of the demographic transition model, but this wasn't always the case. Like any other developed nation, Canada had to pass through the various stages in order to get to where we are today. With this in mind, write a brief description of what you think Canada could be like in each of the five stages of the demographic transition model. Because we are currently in stage 4, this stage has been omitted.

Stage 1

Stage 2

Stage 3

Stage 5

Name _____ Block _____ Date _____

CHAPTER 8 - EXERCISE 6 - *Ethical Judgment*
THE ETHICS OF ENVIRONMENTALISM AND DEVELOPMENT

1. Do you think Canada should continue to extract fossil fuels, or do you think that we should move towards renewable sources of energy? Explain.

2. Today, most developed countries are moving away from the production and use of fossil fuels, and towards renewable sources of energy such as wind, solar, and hydro power. Do you think that developing countries should do the same, even though these technologies are much more expensive? Or should they continue to rely on cheaper fossil fuels as sources of energy? Explain your reasoning.

3. In your own words, define the term "sustainable development."

4. Do wealthy countries like Canada have an obligation to assist developing countries in their efforts towards sustainable development?

5. Explain why environmentalism is not a regional issue but rather an international one.

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CHAPTER 8 - EXERCISE 7
INTRODUCTION TO HUMAN GEOGRAPHY

1. What is the point of studying human geography?

2. Why would the term "global village" be of interest to human geographers? How does this term relate to human geography?

3. Explain how human geography and physical geography are both important in the study of environmentalism and climate change.

4. What is a developing country? Give 5 examples of developing countries.

5. What is a developed country? Give 5 examples of developed countries.

6. Explain how the terms "global village," "global citizenship," and "internationalism" are all related.

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CHAPTER 8 - EXERCISE 8

POPULATION AND DEMOGRAPHY

1. Why do experts believe that exponential population growth could be a harmful trend?

2. Define "population" in your own words.

3. Define "demography" in your own words.

4. How does the United Nations define the term "census"?

5. How often does Canada conduct a census?

6. How are population statistics used by governments? Why are they important?

7. What approximate trend has occurred in world population over the last 2000 years?

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CHAPTER 8 - EXERCISE 9

TOOLS OF THE GEOGRAPHER

1. What is exponential population growth?

2. Why have demographers been concerned about exponential population growth?

3. What data is normally collected in a census? Explain why governments are interested in census results. Why do they need to know this information?

4. Why might censuses not always be completely accurate?

5. a) What is population density and why is this an important population statistic?

b) What is the formula for calculating population density?

c) Use the following information to calculate the population density of Alberta:

- Population of Alberta: 4,300,000
- Land area of Alberta: 661,848 square kilometers (km²)

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CHAPTER 8 - EXERCISE 9

TOOLS OF THE GEOGRAPHER

6. What is the demographic transition model and why is it an important tool for demographers?

7. Complete the following table by indicating whether the birth, death, and population growth rates are either high, medium, or low, and then include any other details relating to each stage. Use point form.

Stage	Birth Rate	Death Rate	Population Growth Rate	Other Details
1				
2				
3				
4				
5				

8. What are the advantages and disadvantages of reaching Stage 5 of the model?

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CHAPTER 8 - EXERCISE 10

IMMIGRATION AND EMIGRATION

1. Define the following terms. (You may have to revisit chapter 6 for some definitions.)

a) Immigration:

b) Emigration:

c) Refugee:

d) Economic migrant:

2. a) What are push-pull factors?

b) Give 4 examples of push factors.

c) Give 4 examples of pull factors.

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CHAPTER 8 - EXERCISE 10
IMMIGRATION AND EMIGRATION

3. Imagine you live in a country with low human development and are considering immigrating to Canada. What are some push-pull factors you might consider?

4. a) What is the formula for calculating the net migratory increase?

- b) What is the formula for calculating the net migration rate?

5. Use the word "emigrate" in a sentence.

6. a) What is Canada's rate of natural increase?

- b) What is Canada's net migration rate?

- c) Does Canada gain more people through natural increase or migratory increase?

7. Explain why immigration is good for Canada's demographic structure.

CHAPTER 8 - EXERCISE 11

BRITISH COLUMBIAN DEMOGRAPHICS

1. Using the demographic information of British Columbia found on the chart below, are you able to determine what stage of the demographic transition model BC is in?

2. Come up with at least two possible reasons why there are an unequal number of males and females in the different age cohorts.

3. Use the demographic information in the chart below to construct a population pyramid for British Columbia. Don't forget to title your graph. For assistance, refer to the population pyramids on pages 304-305.

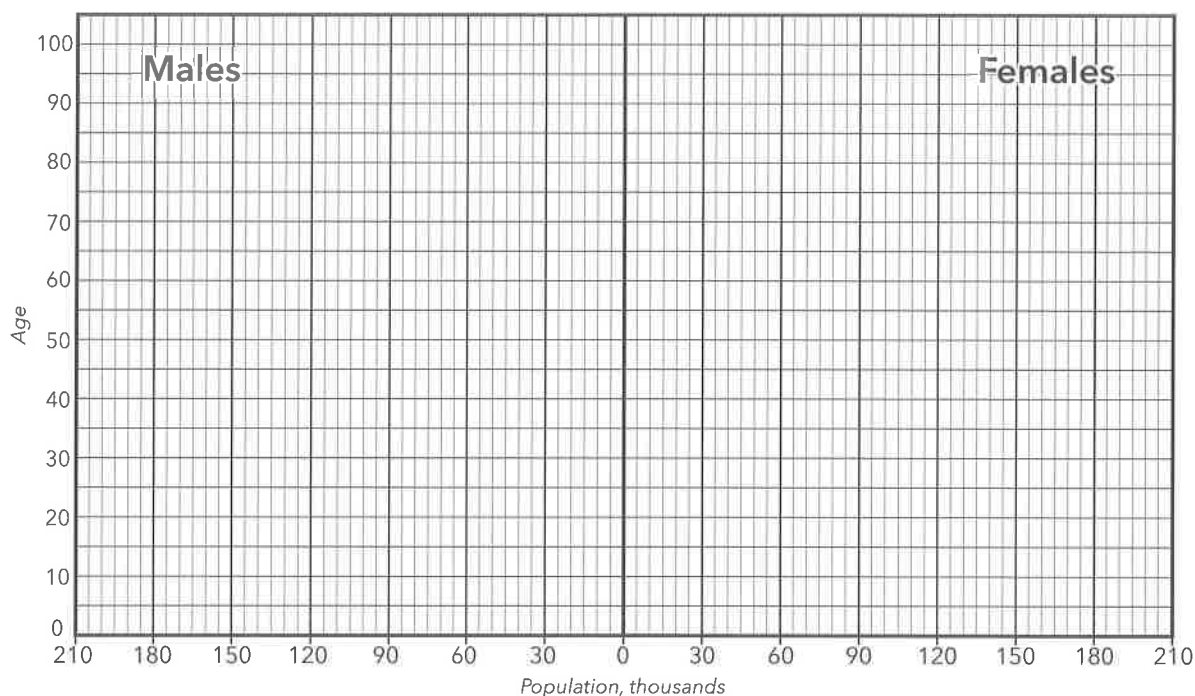
DEMOGRAPHIC PROFILE OF BRITISH COLUMBIA, 2016

Age Cohort	Males	Females
0-4	113,355	107,275
5-9	122,070	114,830
10-14	119,975	113,885
15-19	133,000	125,985
20-24	147,615	139,945
25-29	151,585	151,415
30-34	155,035	158,715
35-39	143,070	150,520
40-44	141,930	153,115
45-49	155,325	167,040
50-54	172,065	182,310
55-59	171,210	183,715
60-64	156,450	167,645
65-69	139,490	148,035
70-74	97,675	104,110
75-79	68,715	76,510
80-84	48,645	56,610
85-89	27,930	39,575
90-94	10,615	21,205
95-99	2,215	6,330
100+	275	1,050
Total population	2,278,245	2,269,815

Source: Statistics Canada

CHAPTER 8 - EXERCISE 11

BRITISH COLUMBIAN DEMOGRAPHICS



4. Using the demographic information from either the chart on the previous page or from the population pyramid above, calculate the dependency percentage for BC. For assistance with calculating the dependency percentage, refer to page 305-306.

5. Now that you can see the population pyramid, determine what stage of the demographic transition model British Columbia is in.

6. Explain possible uses for the information presented on the above population pyramid.

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CHAPTER 8 - EXERCISE 12

POPULATION PYRAMIDS

1. What information does a population pyramid show?

2. Complete the following chart by filling in information about each stage of development.

Stage	Shape of Population Pyramid (draw it)	Birth Rate	Death Rate
Early Expanding			
Expanding			
Stable			
Contracting			

3. What is the formula for calculating the dependency percentage?

4. What are the effects of a high dependency percentage?

5. What does it mean for a country to have an aging population?

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CHAPTER 8 - EXERCISE 13
INTERNATIONAL ENVIRONMENTALISM

1. Brainstorm at least 4 areas of environmental concern.

2. Brainstorm at least 3 things that an individual can do to help with the above.

3. a) What did participating countries agree to by signing the Paris Climate Agreement?

- b) Why was it such a setback when the U.S.A. withdrew from this agreement in 2017?

4. Explain why sustainable development is more challenging for developing countries to achieve than it is for developed countries.

5. Explain Canada's position on international environmentalism.

Name _____ Block _____ Date _____

CHAPTER 8 - EXERCISE 14

CANADA'S RESOURCES

1. a) Define the term "resource."

b) What are renewable resources? Include a definition and two examples.

c) What are non-renewable resources? Include a definition and two examples.

2. List 8 of Canada's resources.

3. What is an aquifer?

4. Explain the problem of groundwater depletion.

Name _____ Block _____ Date _____

CHAPTER 8 - EXERCISE 14
CANADA'S RESOURCES

5. a) In which province is the majority of Canada's uranium located?

b) What are two uses for uranium?

6. Identify three key issues facing Canada's oil and gas industry.

7. In your opinion, which of Canada's resource industries presents our nation with the greatest environmental concerns? Explain your choice. (Example: forest industry, oil and gas industry, mining industry, agriculture industry, etc.)

8. Are you for or against the practice of genetic modification in Canada's agriculture industry? Explain your opinion.

Name _____ Block _____ Date _____

CHAPTER 8 - EXERCISE 14
CANADA'S RESOURCES

9. Identify the environmental damage caused by mineral extraction.

10. Give 3 examples of concerns regarding Canada's agriculture industry.

11. Why are some pesticides currently being phased out in Canada?

12. What are organic products?

13. Explain how a crop is genetically modified.

14. Identify the pros and cons of harvesting genetically modified products.

15. Identify the factors that have contributed to the decline of Canada's forests.

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CHAPTER 8 - EXERCISE 15

STANDARDS OF LIVING

1. What factors make Canada one of the best places in the world to live?

2. How is a standard of living determined?

3. What are the three main indicators used in determining standard of living?

4. Suggest some reasons why women tend to live longer than men.

5. List at least 5 characteristics of a country that has low human development.

6. List at least 5 characteristics of a country that has high human development.

7. What is the difference between a traditional economy and a developed economy?

Name _____ Block _____ Date _____

CHAPTER 8 - EXERCISE 15

STANDARDS OF LIVING

8. What are some factors that make it easy for a county to develop? Give at least 3.

9. What are some factors that make it difficult for a county to develop? Give at least 3.

10. Use the internet to research different standards of living around the world. After compiling your information, decide what you think is the best country in the world to live in, and then write a detailed paragraph describing the standard of living in that country. Don't forget to include information about your chosen country's life expectancy, literacy rate, GDP per capita, and where it ranks in the UN World Happiness Report and Human Development Index. (Note: There is no right or wrong answer when choosing a country. You will only be marked on your description.)

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Name _____ Block _____ Date _____

CHAPTER 8 - EXERCISE 16

ECONOMIC DEFINITIONS

1. Complete the following chart by providing a definition for each term.

Term	Definition
Economy	
Traditional Economy	
Subsistence Economy	
Developed Economy	
Service-based Economy	
Economic Disparity	
Gross Domestic Product	
Poverty	

2. What kind of economy does Canada have? Explain how you know.
