

When did the UN announce that the world population had reached 6 billion?	– in 1999
When is the world's population expected to increase by another billion?	-by 2020
What does the growth in population contribute to?	-shortages in energy, housing, and food -increases in pollution, unemployment and environmental destruction
What is demography ?	-statistical study of human populations -helps understand the causes and consequences of population changes
What is a population census ?	-information gathered about a population from a particular country at a particular time
How often does Canada take a census?	-every 10 years a detailed census -every 5 years a shorter one
Why is the census data less accurate in developing countries?	-registration of births and deaths is not as complete -census takers may not reach remote areas -people in shanty towns not counted (not permanent residents) -some people may avoid due to fear
Why is it difficult to make comparisons between countries?	-definitions may differ -data may be outdated if census is old
What are the components of population change?	-how many born -how many died -how many move in and out of area
What is the equation for an increase or decrease in population?	Births - deaths + immigrants – emigrants = Population increase or decrease
How should births and deaths between countries be compared?	-need to compare the relationship between the numbers of births and deaths and the size of the population (these are called birth and death rates)
How is the crude birth rate calculated?	# of births in one year divided by the population and then multiplying result by 1000
How is the crude death rate calculated?	# of deaths in one year divided by the

	population and then multiplying result by 1000
How do you calculate the rate of natural increase ?	Subtracting deaths from births -Natural increase does not include increase due to immigration
What are Canada's rates?	-crude birth rate= 11 per thousand crude death rate= 7 per thousand natural increase = 6 per thousand
What is an exponential rate of increase?	-where each number doubles: results in a rapid rate of increase
What is the rule of seventy ?	Doubling time is approximately equal to 70 divided by the growth rate (in percent) per year
What is doubling time?	The length of time it takes for a population to double in size
What is the effect of immigration on population?	-can cause a population increase or decrease
What is the net migration rate?	The difference between the immigration and emigration rates
How do you calculate the population growth rate?	Birth rate – death rate +/- net migration rate = population growth rate
Which countries have immigration as a significant factor in population growth?	Canada, US, Australia
What are some of the reasons immigrants come to Canada from developing nations?	-to increase their standard of living -to escape persecution in their home country
How do large-scale mass migrations affect the structure of population by age and sex?	-most immigrants are young single males -this gives host country a younger population that will result in a higher birth rate -this gives the country losing the population an older population and a lower birth rate
What are the multicultural populations in Canada and the US a result of?	Migration

Why did the world's population grow slowly before the 1700's even though birth rates were high?	-Because death rates were also high -life expectancy was only 30 years
What is life expectancy?	-average number of years that an individual is expected to live
What is Canada's present life expectancy?	76 years for males 82 years for females
What caused the rapid increases in population growth after 1750?	-falling death rates
Why did the death rates fall?	-agricultural revolution increased food production -more food =better diets -improved hygiene= less disease -improved medical knowledge= less disease
Why did the birth rates eventually decline?	-economic development -move to cities -rising standards of living
What is the demographic transition model?	-explains population change -shows changes over time in birth rates, death rates and total population growth
What occurs at stage 1 of the demographic transition model?	High birth and high death rates = small population growth
What occurs at stage 2 of the demographic transition model?	-rapid fall in death rates (due to improved nutrition, sanitation and health care) -birth rates high = rapid increase in population
What occurs at stage 3 of the demographic transition model?	Population growth begins to decline because of falling birth rates (due to urbanization and improved living standards)
What occurs at stage 4 of the demographic transition model?	Low birth and death rates = low population growth rate
What occurs at stage 5 of the demographic transition model?	Birth rates drop below death rate

What does the age structure of a population help us understand?	-the reasons for the changes in population -can give insights into problems from a predominately young or old population
What 3 age groups are the populations divided into?	-children up to age 15 -working adults 16-65 -elderly 65+
What is the dependency ratio ?	-proportion of the population that is supported by the working age group
What is a population pyramid ?	-a graph the shows the age and sex structure of a population
Why are population pyramids useful?	-make it easier to see the structure of a population -useful in comparing the population structures of different countries
What is a cohort ?	An age group in a population i.e. # of people aged 1-5 years
What is an expanding population ?	-has high birth rate and many children -found in developing countries -pyramid model looks like: \wedge
What is a stable population ?	-Birth and death rates are in balance -found in developed countries -pyramid model looks like: \frown
What is a contracting population ?	-death rate exceeds birth rate -found in developed countries -pyramids model looks like:
What has Canada's birth and death rate been doing in the past 30 Years?	-steadily dropping as the population ages
What is the effect of the increasing numbers of elderly?	-immense strains on social and medical services -fewer children to look after aging parents
What is one of the main factors that the federal government considers when deciding on numbers of immigrants to accept?	-the age structure of the population
Why is immigration important to Canada?	-without immigration our population would shrink -also the average age of the Canadian population would increase rapidly

What is the government's immigration goal?	- 1% of the population - to attract young skilled workers and entrepreneurs to offset the aging workforce
What is the major change in the age structure of the world's population?	-increase of numbers of people in the dependant category (too many old in developed countries; too many young in underdeveloped) -this puts strain on financial resources of countries (i.e.- too few young to take care of many old)
What does population distribution refer to?	The way people are spaced over the Earth's surface
What is ecumene ?	Permanently inhabited places on Earth
What percent of the worlds area is not good for settlement?	35%
Over 1/2 of the world population lives on what percent of the land?	5%
90 percent of the population lives on what percent of the land?	20%
What is population density ?	Number of people in a given area
What are crude densities ?	-population of a country divided by area
What are the physical factors that affect population density?	-climate, landscape, resources, soils, vegetation, water, accessibility.
What are the human factors affecting population density?	-communications, culture, development, disease, government policies
What is carrying capacity of the land?	-Idea that land can produce only so much food and goods using the technology of the time. -As the population increases, <u>a point is reached where the land cannot support that number of people</u>
What is nutritional density of land?	Measure of how much nutrition in calories that can be produced from the land