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# Theme 1 – Population and settlement

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## 1.1 Population dynamics

Birth rate - no of ppl born per 1000 in a pop per year

Death rate - no of ppl died per 1000 in a pop per year

Natural population change - difference between birth rate & death rate

Overall population change - difference between BR & DR +/- for migration

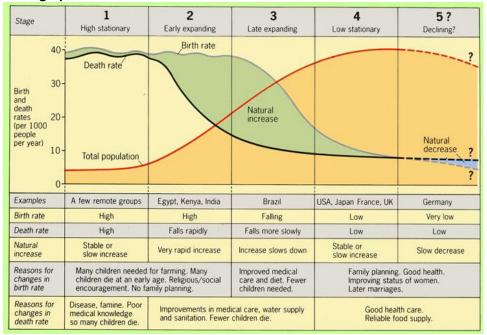
Fertility rate - average number of children a female is expected to have in their lifetime

Life expectancy - no of years on average that a person is expected to live within a country

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Infant mortality rate - no of deaths of children under the age of 1 per 1000 live births per year

#### **Demographic Transition Model**



Over-population - too many ppl living in an area for resources & space available

Under-population - not enough ppl living in an area so resources & space are wasted

Optimum population - level of pop is enough to fully use resources available, total pop at which GDP is at the highest level

#### Why countries become over-populated (3)

- High population growth
- High birth rate due to lack of family planning
- Low death rate due to good healthcare services
- Large amount of immigration

#### Describe problems of over-population on a country. (4)

- There will a lack of sufficient resources to meet the needs of its population, which leads to lower standards of living and increase number of people living in poverty.
- Also, the government does not have sufficient money to invest in public services eg education and healthcare, leading to a poor quality of services and facilities.
- Moreover, diseases can spread easily in overcrowded living conditions and with insufficient medical services, the life expectancy is reduced.
- Furthermore, traffic congestion occurs leading to atmospheric pollution from combustion.
- Additionally, deforestation occurs for building infrastructure or fuel wood to generate electricity to meet the demand of its population

#### Describe problems of under-population (4)



#### Population and Settlement

- One of the problems caused by under-population is shortage of workers lead to lower optimum productivity, which limits the countries' GDP.
- Also, resources are not able to be fully exploited eg outback is undeveloped and unused.
- Moreover, it is difficult to defend the country due to the lack of people in the defence force.
- Besides, government lacks financial resources to invest in public services due to the lack of tax collected. This
  causes closure to public services eg schools and hospitals as they cannot meet the threshold population,
  consequently, reduce the accessibility to public services.

#### Explain why countries with large areas of land may not be under-populated (5)

- High population density
- Large areas of land could be of little use eg deserts
- Few resources might be available eg coal
- High level of technology allows economy to develop without much labour, so all resources can be easily exploited be few ppl

#### Explain why some areas are underpopulated. (3)

- Relatively few ppl living there coz of eg extreme climate
- Large amounts, surplus of resources

#### Suggest why child mortality is high in some countries in Africa (4)

- Poor healthcare, lack doctors, lack vaccination, lack medicine
- Poor food & water supply, hygiene, waterborne disease eg chlorea
- Poor education about diet

#### Suggest why countries with high child mortality have high birth rate (5)

- Ppl have lots of children to replace those that die at a young age
- Need children to help on land, in home to look after siblings and parents in old age, collect water, work to earn money
- No state pensions for elderly so need to rely on children

#### Explain how gov policies influence pop growth rate (5)

- Anti-natalist policy
- Restrict family size by limiting no of children
- Education ppl about contraception
- Make birth control or contraceptives more afforable
- Educate women to encourage them to take jobs
- Increase marriage age

#### **HIV/AIDS**

Origin	Impact
HIV-1 – arose in Central Africa	<ul> <li>HIV mostly occurs in women</li> <li>When women give birth, they infect the child → ↑ death rate for infants</li> </ul>
HIV-2 – arose in     West Africa	<ul> <li>Death rate of mothers → ↑ orphans</li> <li>Due to countries being poor → lack of state welfare → poverty &amp; lack of education</li> </ul>

#### **Case studies**



### Population and Settlement

	L/IdC3L deagraphy Notes	ropulation and Settlement
Basic info	Capital city - Dhaka Neighboring countries - India & Myanmar Population - 160 million Population density - 1000ppl/km² Growth rate - 1.2%	
Causes for high pop growth	<ul> <li>Birth rate: 18/1000</li> <li>Lack of availability &amp; knowledge of child cost &amp; family planning</li> <li>Lack of access to contraceptives - 62% use contraception, which increases the risk of unintended pregnancies and fertility rate</li> <li>Most ppl are subsistence farmers → need many children as economic assets to help them work on the farms</li> <li>Many women are uneducated, don't have a job. They have a early marriage - 1/3 girls married by 18 years old, women marrying earlier tend to have children earlier &amp; bear more children over their lifetime</li> <li>No state pension → many children to take care when they're old</li> <li>High infant mortality rate (30/1000 per year) so ppl have lots of children to replace those that die at a young age</li> </ul>	Death rate: 6/1000  Improvement in  • Health care → ↓ child mortality • Education • Clean water supply • Food supply • Sanitation
Impacts	<ul> <li>Shortage of job opportunities cause high unemployment. Consequently, 25% of the population living below the poverty line of \$1.25 per day.</li> <li>Lack of education, housing, health care provision, due to the lack of sufficient resources to meet the needs of it's the population, 13% of the population do not have access to clean water, which cause more people to suffer from water borne disease eg cholera. Also 33% of the children under 5 are underweight due to the lack of food supply</li> <li>Life expectancy is reduced to 52 years old as overcrowding cause diseases to be spread easily and lack of medical service</li> <li>Urban area → pollution from traffic congestion</li> <li>Over cultivation of land to grow crops to meet the demand of large pop reduces soil fertility, which reduces crop yield &amp; leads to malnutrition for many ppl</li> <li>Unemployment → low standard of living, GDP: US\$380</li> </ul>	
Solutions	<ul> <li>Anti-natalist policy (family planning / ↓ birth rate)</li> <li>Law-marriage age, women: 18, men: 21</li> <li>Support for full-time area health workers who provide contraception service</li> <li>Limit families to 2-3 children</li> <li>Improve women's education</li> <li>Success? - In 1981: 18%, 2015: 60%</li> <li>Obstacles - Many women governed by purdah → can't leave home without permission</li> <li>→ difficult for health workers to contact</li> </ul>	

### Low rate of natural population growth / Under-population - Australia

Basic info	Capital city - Canberra
	Population - 24.6 million
	Population density - 3ppl/km <sup>2</sup>



#### **Population and Settlement**

	Growth rate - 0.4%		
Causes for low pop	Birth rate: 12/1000	Death rate: 8/1000 (life expectancy: 82)	
growth	<ul> <li>High childcare cost</li> <li>Well-educated women</li> <li>95% use of birth control methods</li> <li>Low infant mortality rate</li> </ul>	Good health care, education, clean water supply, food supply, sanitation	
Impacts	to invest in all the public sclosure to public schools of population, consequently  Unsuccessful businesses  Less innovation  Gov services eg school do  Shortage of workers lead GDP. Also, resources are rundeveloped and unused coastline due to the lack of  To increase the workforce workers by relaxing visa rundeveloped and unused coastlines due to the lack of the	Less paying taxes / Not enough tax so the government lacks financial resources to invest in all the public services eg healthcare and education. This cause closure to public schools or hospitals as they cannot meet the threshold population, consequently, reduce the accessibility to public services Unsuccessful businesses	
Solutions	<ul> <li>Pro-natalist population policy (↑birth rate)</li> <li>Assist families with living cost</li> <li>↓ burden childcare costs</li> <li>Success? - Fertility rate still low. Women on average have 1.6 children, not enough to ↑ natural pop growth rate</li> <li>Give benefits to ppl with children</li> <li>Relax visa rules → more immigrants get citizenship</li> <li>Expand economy to persuade ppl move to work</li> <li>Attract age 25-35 - educated, have work experience, long time till retirement</li> </ul>		

#### Describe pop policy used to influence its pop growth rate (7)

Bangladesh has a population of 160 million, high population density of 1000ppl/km2 and growth rate of 1.2%. The population is growing rapidly because death rate is reduced to 6/1000 when birth rate remains high at 18/1000. To control the growth rate, the government introduced an anti-natal policy in 1975, which is a family planning that reduces birth rate. It includes educating ppl on the problems caused by rapid population growth eg limited resources of food and clean water. The minimum age of marriage was also increased to 18 years for women and 21 of men so women have a later marriage, which reduce children bearing over their lifetime. Moreover, there's support for health workers who provide contraception service to increase ppl's access to birth control and made it more affordable. Besides, there's provision to improve women's education so more women go to work and have a later marriage. Apart from that, small family size are encouraged through advertising campaign on TV and poster.

### 1.2 Migration

**Migration** - movement of ppl from one place to another **Immigration** - ppl enter country to live/work



Population and Settlement

**Emigration** - ppl leave country to live/work **Net migration** - immigration - emigration

**Illegal immigrants** - ppl who doesn't have permission to travel into a country **Refugee** - ppl who's forced to leave their country (coz war / natural hazards)

**Internal migration** - migration within country

**International migration** - person who moves from one country to another

• Rural-urban migration - movement of ppl from rural to urban areas

# Describe problems faced by migrants who have recently moved to urban areas in LEDCs. (5)

- Lack of employment
- Low pay
- Long working hours
- Can't afford food / housing
- Traffic congestion air pollution breathing problems

# Describe impacts of rural to urban migration on rural areas from which ppl have migrated. (5)

- Rural pop becomes lower
- Reduction of workforce
- Less food supply starvation
- Child labour
- Separate from family
- Less innovation

# Difficulties which international migrants may experience when settling in a new country

- Lack of qualifications to be employed
- Cannot speak the language
- High living cost
- Difficulty affording housing
- Racisms and discrimination may occur
- Hard to fit in due to difference in culture
- Live away from family home sick
- Do dirty jobs

#### Explain how economic factors cause international migration (4)

- More job opportunities
- Better wages
- Lower house prices, heathcare fee, education prices
- Lower taxes
- Lower living costs

# Describe +ve impact of international migration on destination countries

- Enlarge labour force, increase productivity
- Supply cheap labour working in low paid jobs
- More skilled labour eg doctors
- Multi-cultural society eg Chinese restaurant
- More tax paid to gov
- Bring new ideas and larger market for businesses, which develop economy and increases competition lowers price

# Explain how remittance money sent home by international migrants may benefit ppl in country from which they have migrated. (3)

- Support family escape poverty, higher living standard
- Send children to school
- Improve water supply, housing, healthcare

Volun	tary - ppl choose to move	<b>Involu</b> move	ntary - ppl forced to
•	Better job, wages, education, health care Peaceful & safe Family & friends already live there	•	Refugees Persecution - ppl attacked for what they believe eg religion

#### Describe pull factors of MEDC for migrants from LEDCs

- Employment
- High wage



#### Population and Settlement

- Good quality of education, heathcare, housing, water supply
- Bright lights
- Adequate food supply
- Family/friends live there
- Political stability

#### Suggest possible impacts on Lithuania of a large amount of emigration

- Loss of working population
- Decline in economy
- Hard to produce enough food
- Family split up
- Less pressure on services
- Less taxes paid to gov
- Less traffic congestion

**Push factor** (leave Mexico)

#### Case study - international migration from Mexico to USA

• 6.5 million Mexicans migrated to USA illegally, which is 57% of illegal migrants

<ul><li>Adult litera</li><li>40% unemp</li><li>High crime</li><li>Poor standa</li></ul>	poverty line cy rate: 55% ployed	<ul><li>13</li><li>A(</li><li>Lc</li><li>B(</li><li>D)</li></ul>	Min wage: \$7/day 13.5% below poverty line Adult literacy rate: 99% Low crime rate Better standard of living Diverse economy → more job opportunities & greater range of goods/services
	Mexico		USA
+ve impacts	<ul> <li>\$13 billion/year in to back to Mexico from members working in remittances, which is the most important income and helps ed growth in Mexico th multiplier effect</li> <li>when migrants return they're more skilled help develop Mexico economy</li> </ul>	n family n USA as s one of source of conomic rough rn, & can	<ul> <li>Benefit US economy by supplying need of cheap labour working in low paid jobs eg truck drivers</li> <li>Enlarge labour force</li> <li>Enriched Mexican culture with food, language &amp; music &amp; establish a multicultural society</li> <li>More tax paid to gov</li> </ul>
-ve impacts	<ul> <li>Migration of people workforce in Mexico decline economic gr</li> <li>Many men migrate a women behind to rachildren or children with the absent of a</li> <li>Young adults tend to leaving ageing commobehind</li> <li>Many illegal immigrate when walking across</li> </ul>	o, which owth and leave ise are grown father o migrate, nunities ants died	Mexicans are seen as a drain on USA,

Pull factor (Move to USA)

Desert - hot & dry



Population and Settlement

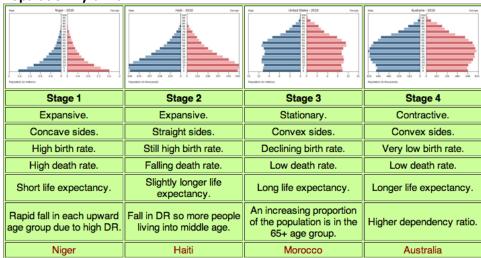
- Self-help schemes
- Site & service schemes
- Building of low cost housing
- Road building
- Investment in rural areas
- Investment in education & healthcare
- Creation of employment
- Strategies to deal with traffic congestion

For a named country you have studied, explain why internal migration takes place from rural areas to rapidly growing urban areas. (7)

- Employment
- Food, water supply
- Education, healthcare
- Natural disasters

# 1.3 Population structure

#### **Population Pyramid**



Population structure - how the population can be divided up

Young dependent - ppl aged 0-14

Economically active - ppl who work (aged 15-64)

Old dependent - ppl aged 64-80+

#### Describe the shape of the pyramid. (3)

- Base, top narrow / wide
- (Less) pyramid shaped

Suggest reasons for changes (narrower base, wider top) % of young & old dependents. (4)

Young dependents (Suggest reasons why birth rates reduced. (5))

- More use of family planning control the family size
- Have education of birth control know how to use it
- Have knowledge of child cost
- Gov anti-natalist policy limit family size
- More women being educated, go to work, later marriage
- Decrease in subsistence farming and more machines used on farms so less need for child labour as farm workers

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**Population and Settlement** 

Low infant mortality rates

#### Old dependents (Suggest reasons why death rates reduced. (5))

- Better health care, more doctors/nurses, vaccinations, medicines
- Pensions, better care for elderly
- Better water & food supply (clean water, better diet), hygiene, reduces diseases
- (Education about ) Healthier lifestyle (balanced diet, regular exercise)
- Higher living standards

#### Explain what challenges are likely to be faced as population increases. (5)

- Need to provide more housing, heath care, educational facilities
- Traffic congestion
- Loss of natural vegetation / deforestation
- Pollution (air/water/noise)
- Unemployment
- Poverty
- Overcrowded housing

#### Describe challenges faced by MEDCs as % of old dependents in population increases. (5)

- More pressure on economically active population due to the shortage of workforce in eg armed force
- Higher taxes as less economically active people is paying taxes to the gov
- More money spent on care for elderly/pension, healthcare (services eg 'meals on wheels' or charities eg 'Help the Aged')
- Less money spent on education & infrastructure
- Longer waiting lists for hospital treatments
- Less workforce, reduce productivity, GDP falls, limit economic growth
- Less innovative workforce
- Increase retirement age ppl force to work longer

#### **Case studies**

# For a named country you have studied, describe the problems caused by an increasing % of young or old dependents.

#### High young dependents - Bangladesh

Basic info	<ul> <li>30% of young dependents - Due to high birth rate (18/1000)</li> <li>6% of old dependents - death rate (6/1000)</li> </ul>
Problems	<ul> <li>Rapid ↑ working pop - not enough jobs - ↑ unemployment rate</li> <li>24% live below poverty line, low living standard</li> <li>Insufficient money spent on education coz rate of pop growth faster than investment on education - ↓ education quality</li> <li>Half the population under 15years old, future birth rates will increase &amp; so pop will continue to grow rapidly</li> </ul>
Solutions	<ul> <li>Anti-natalist policy (family planning / ↓ birth rate)</li> <li>Law-marriage age, women: 18, men: 21</li> <li>Support for full-time area health workers who provide contraception service</li> <li>Limit families to 2-3 children</li> <li>Improve women's education</li> <li>Success? - In 1981: 18%, 2015: 60%</li> <li>Obstacles - Many women governed by purdah → can't leave home without permission</li> <li>→ difficult for health workers to contact</li> </ul>

#### High old dependents - Australia

Basic info	13% of old dependents - low death rate (8/1000)	
	• 19% of young dependents - low birth rate (12/1000)	



### Population and Settlement

Problems	<ul> <li>More pressure on economically active population due to the shortage of workforce in eg armed force</li> <li>Higher taxes as less economically active people is paying taxes to the gov</li> <li>More money spent on care for elderly/pension, healthcare (services eg 'meals on wheels' or charities eg ' Help the Aged'), less money spent on education &amp; infrastructure</li> <li>Longer waiting lists for hospital treatments</li> <li>Less workforce, reduce productivity, GDP falls, limit economic growth</li> <li>Less innovative workforce</li> <li>Increase retirement age - ppl force to work longer</li> <li>There're few young economically active people, low birth rate, meaning there'll be a further decline in working pop in the future</li> </ul>
Solutions	<ul> <li>Pro-natalist population policy (↑birth rate)</li> <li>Assist families with living cost</li> <li>↓ burden childcare costs</li> <li>Give benefits to ppl with children</li> <li>Relax visa rules → more immigrants get citizenship</li> <li>Expand economy to persuade ppl move to work</li> <li>Attract age 25-35 - educated, have work experience, long time till retirement</li> <li>↑ retirement age (67 → 70) - ↑ working age group</li> </ul>

#### **Case studies**

### High rate of natural population growth / Over-population - Bangladesh

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Impacts	<ul> <li>Shortage of job opportunities cause high unemployment. Consequently, 25% of the population living below the poverty line of \$1.25 per day.</li> <li>Lack of education, housing, health care provision, due to the lack of sufficient resources to meet the needs of it's the population, 13% of the population do not have access to clean water, which cause more people to suffer from water borne</li> </ul>		



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	<u> </u>
	<ul> <li>disease eg cholera. Also 33% of the children under 5 are underweight due to the lack of food supply</li> <li>Life expectancy is reduced to 52 years old as overcrowding cause diseases to be spread easily and lack of medical service</li> <li>Urban area → pollution from traffic congestion</li> <li>Over cultivation of land to grow crops to meet the demand of large pop reduces soil fertility, which reduces crop yield &amp; leads to malnutrition for many ppl</li> <li>Unemployment → low standard of living, GDP: US\$380</li> </ul>
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### Low rate of natural population growth / Under-population - Australia

Basic info	Capital city - Canberra Population - 24.6 million Population density - 3ppl/km <sup>2</sup> Growth rate - 0.4%			
Causes for low pop growth	Birth rate: 12/1000  High childcare cost Well-educated women 95% use of birth control methods Low infant mortality rate	Death rate: 8/1000 (life expectancy: 82)     Good health care, education, clean water supply, food supply, sanitation		
Impacts	<ul> <li>invest in all the public services eg public schools or hospitals as there consequently, reduce the accessi</li> <li>Unsuccessful businesses</li> <li>Less innovation</li> <li>Gov services eg school doesn't ha</li> <li>Shortage of workers lead to lowe Also, resources are not able to be unused. Moreover, it is difficult to people in the defence force.</li> <li>To increase the workforce, the goworkers by relaxing visa rules. Ho Australians do not want foreigner</li> <li>Rural urban migration occurs bec</li> </ul>	ve enough ppl to meet threshold population roptimum productivity, which limits Australia's GDP fully exploited eg outback is undeveloped and defend the 25000km coastline due to the lack of overnment encourages immigration of foreign wever, this causes conflicts because many		
Solutions	<ul> <li>Pro-natalist population policy (↑</li> <li>Assist families with living cost</li> <li>↓ burden childcare costs</li> </ul>	birth rate)		



#### Population and Settlement

- Success? Fertility rate still low. Women on average have 1.6 children, not enough to ↑ natural pop growth rate • Give benefits to ppl with children • Relax visa rules → more immigrants get citizenship
  - Expand economy to persuade ppl move to work

  - Attract age 25-35 educated, have work experience, long time till retirement

# 1.4 Population density and distribution

Population density - no of ppl living in km2

#### What is measured by pop density?

How closely together ppl live

#### **Factors influence pop distribution**

Explain how climate influence pop distribution (5)

Explain how different physical factors influence pop density (4)

Climate			
	Polar climate	<ul> <li>Long period of freezing temp is too cold for comfortable living &amp; ppl suffer from frostbite</li> <li>Ground is permafrost so difficult to contruct infrastructures</li> <li>Very short growing seasons so limited food production</li> </ul>	
	Hot arid deserts	<ul> <li>Low rainfall of less than 250mm per year</li> <li>Difficult to grow food</li> <li>Lack of water - suffer dehydration</li> <li>High temp makes it uncomfortable to live there</li> </ul>	
	Temperate climate	Average temp & reliable rainfall makes it easier for growing crops for food supply & supply pop & industry with their water needs	
Relief	<ul><li>Flat land - easy</li><li>High mountains</li></ul>	limate more moderate to construct infrastructures s & steep slopes - difficult to produce food with colder climate, higher rainfall, it easy to use machinery, difficult to build infrastructures	
Soil fertility	<ul> <li>fertile soils eg deltas / floodplains can increase crop yield and food supply for the population</li> <li>Infertile soils eg mountain</li> </ul>		
Natural resources	<ul> <li>Areas with natural resources available are usually densely populated eg coal because those area of more job opportunities and businesses.</li> </ul>		

#### Explain why countries with coastlines are more densely populated? (4)

- Ports can be developed on coast which provides transport routes eg ferries and increase accessibility for trading
- Industry develops at port eg power stations, which increases job opportunities
- Climate are more moderate which is comfortable for living
- There are beaches which attracts tourists to go there

#### Describe global distribution of these areas (3)

- It is unevenly distributed
- Area of high pop density include South Asia eg India & East Asia eg China
- Area of low pop density include Polar regions eg Arctic & around tropic of cancer/deserts eg North Africa

#### Suggest reasons for low pop density in Mongolia (4)



Population and Settlement

- It is landlocked
- High mountains and steel slopes
- Arid area
- Cold long winters
- Few jobs
- Infertile soils

#### Suggest difficulties which planners face in urban areas with high pop densities (5)

- Not enough housing
- Increase pressure on healthcare & education
- Traffic congestion
- Unemployment
- Crime eg robbery
- Lack of clean water supply, electricity and good sanitation
- Problems associated with waste disposal
- Air, water, noise pollution

#### For a densely populated country you have studied, describe and explain the population distribution.

Name of country: Bangladesh

- Bangladesh has a population density of 1000people/km2. The population distribution is uneven where 75% of the population live in rural areas and 25% in cities.
- There is a high population density in Dhaka of 50000people/km2 because it is urbanising rapidly and people are attracted by the potential for better job opportunities and better services eg healthcare and education. Also, many people are forced to flee from rural areas to Dhaka on south coast due to flooding. There is also a high population density on Ganges river delta because flat land makes it easier to build infrastructures eg housing. Building transport networks eg roads also makes the land more accessible. Moreover, it's the soil is fertile due to annual flooding and deposit of alluvium. This makes it easier to grow crops for food supply.
- On the other hand, there is a low population density in SE highland of less than 250people/km2 because the steep sided hills rise to 900m above the sea level which makes it difficult for intensive agriculture as the soils are infertile. It's also difficult to construct infrastructure eg transport routes so the area is less accessible. The population density in south coast region is also low of less than 250people/km2 because of the extremely low lying land of less than 10m above sea level and the rise of sea level due to climate change. This makes the land easier to be flooded so people are encouraged to migrate to cities eg Dhaka.

### For a sparsely populated country you have studied, describe and explain the population distribution.

Name of country: Australia

- Australia has a population density of 3people/km2. The population is uneven.
- There is a higher population density of 10people/km2 in cities in SE eg Sydney and SW eg Perth because the climate is temperate. The average temperatures and reliable rainfall of 800mm makes it easier for growing crops for food supply and provide water for domestic and industrial use. Several cities are located close together eg Sydney and Canberra with close trading connections and good transport links which attract businesses to occur, increases job opportunities and make the areas more accessible. There is also a higher population density in some sparsely populated areas eg Port Hedland in NW because the raw materials eg coal are located there which creates job opportunities for miners. Transport links eg Highway 1 is built along the west coast to link mining settlements with coastal ports eg Port Hedland for exporting raw materials.
- On the other hand, there is a low population density in the centre eg the Great Sandy desert because the low rainfall with less than 250mm per year makes it difficult for the population due to the lack of water for domestic use or agriculture use to grow crops for food supply. Also, the poor transport network makes reduces the accessibility to travel between communities. The population density Is also low in northern Australia because the tropical climate has an extremely high rainfall with over 2000mm per year. The climate has a distinct wet and dry season which makes it difficult to build infrastructures eg roads because of the flooding. It's also difficult to grow crops because the soil is infertile as it will be removed by large amount of surface run off.



# 1.5 Settlements (rural and urban) and service provision

Rural / urban settlement: residential area where ppl live in countryside/cities

**Site:** area which settlement is built on **Situation:** area surrounding settlement

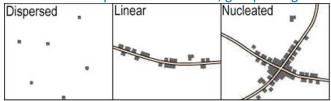
#### **Factors affect location of settlements**

- 1. Wet point sites water supply
- 2. Dry point sites higher land near river to avoid flooding
- 3. **Hill tops** defensive sites
- 4. Flat land easier to construct settlements & grow crops coz soil is likely to be fertile
- 5. Fertile soil grow crops
- 6. Aspect get more sunshine
- 7. Bridging point easier to build bridge to cross river
- 8. Nodal point crossroads / rivers meet encourage trading
- 9. Transport network increase accessibility

#### **Settlement patterns**

#### What is the settlement pattern? (1)

- O **Dispersed** spread out, separated by countryside, low pop den.
- Linear develop along road / river, restricted by highland / river
- Nucleated develop around crossroad, grouped together, flat all around, common resource



#### Give 2 reasons for growth of settlement (2)

- Along a road for transport
- Near river for water supply

#### Suggest why there're no settlements? (3)

- O There's a river flooding may occur
- Area could be marshy land
- It could be farmland / forested

#### Identify settlement pattern & suggest possible reasons for this pattern. (4)

Settlement pattern - dispersed

#### Reason

- Area could be farmland / forest
- Ppl need large areas of land to make a living
- Some parts of area may not be habitable

Function: purpose of the settlement

Function of a settlement	Definition	
Market town (agricultural)	Provides services for surrounding agricultural area e.g. selling farm products	
Mining town	Extract materials e.g. coal	
Industrial	Where many factories are located	



#### **Population and Settlement**

Port	Located on the coast or large river where goods are imported and exported		
Route Centre	Has excellent transport links e.g. roads		
Commercial	Provides needs of trade e.g. financial or retail centre		
Residential Where ppl live			
Tourist resort	For luxury		

#### Settlement hierarchy: settlements in an area in order of importance

Their importance will depend on pop size, range & no. of services, sphere of influence



Describe relationship between pop size & no of settlements. Give eg of settlement types from diagram above. (2)

- O Larger pop, less settlements
- Eg Less cities then village

**Sphere of influence** - area served by a settlement

**Threshold Population**: min no. of ppl needed to create sufficient demand for a service to make a profit **Range**: max distance that ppl is prepared to travel in order to obtain a service

Low order / Convenience goods & services Eg food stores		High order / Comparison goods or services			
			e 3 examples of high order services which are likely to be located in e cities (3)  Wedding dress shop, theatre, university		
		expl o o	ain why large cities have many high order services. (4)  Large pop - lots of customers, high demand  Large sphere of influence - enough ppl to meet threshold pop  Good transport links - many tourists will visit  Wealthy ppl live there		
0 0 0	Used by most ppl frequently Cheaper Low threshold pop Ppl won't travel far to to purchase them	0 0 0 0	Specialist services Larger in size Have greater variety Large sphere of influence More expensive		
0	Have small range Sold in low order settlement	0	Better quality Ppl compare prices		



Sold in high order settlement

#### Explain why service provision in some rural areas is declining. (5)

- O Ppl move away from rural areas decline of pop less customer, demand
- O Services are unprofitable & not sustainable
- Poor communications make supplying resources to these services difficult
- Young ppl leave
- o Many ppl use services in urban areas where they work

#### Case study - Shrewsbury vs Acton Burnell

Shre	wsbury	Acton Burnell
0	Large town, high order settlement	Village, low order settlement
0	County of Shropshire in Western England	<ul> <li>Located 8 miles south of Shrewsbury</li> </ul>
0	Population: 70,000	<ul> <li>Population: 544 (not including the boarding</li> </ul>
0	Highest order settlement in hierarchy of Shropshire	school students)
0	Has a variety of high order services eg 2 hospitals (NHS & private), shopping centres eg M&S,	<ul> <li>Has a few low order services eg post office which sells convenience goods</li> </ul>
	restaurants, entertainment eg cinemas & theatres	<ul> <li>Has an international boarding school for over</li> </ul>
0	On outskirts of town, there're various retail park eg Meole Brace to take adv. of the cheaper land and higher accessibility	500 students and it provides considerable local employment. The college hosts cultural events that local residents.
0	3 park and rides, many bus services and a railway station which links to Birmingham, located near the	<ul> <li>Students reach threshold population for post office &amp; shops nearby</li> </ul>
	motorway (M54) – increase accessibility	<ul> <li>Has church but services are not weekly &amp; a refuse collection service.</li> </ul>
		<ul> <li>Has bus service to Shrewsbury but doesn't operate frequently</li> </ul>

### 1.6 Urban settlements

### 1.7 Urbanisation

#### **Central Business District (CBD)**

### Characteristics of land use

- O High rise buildings
- High density land use
- High traffic congestion
- Good transport links
- High order settlements
- High land cost

Functions - retail, entertainment, financial services, other professional services

Problems - congestion, pollution, lack of space

#### **Residential Areas**

Inner city	<ul><li>Area close to CBD</li><li>Has mainly terraced houses in a grid like pattern</li></ul>
	Have convenience stores
	Lack of open areas
	o Overcrowding
Suburb	Lower cost of land



#### Population and Settlement

	0 1 7
	<ul> <li>Higher housing cost</li> <li>Better quality housing &amp; most have a garden</li> <li>Detached or semidetached homes</li> <li>Have shopping centres</li> </ul>
Outer-city estate	<ul> <li>Located on fringes of cities with varied housing</li> <li>Ppl relocated here when inner city was being redeveloped</li> </ul>
Rural-urban fringe	<ul> <li>Edge of city</li> <li>Mixture of land uses e.g. housing, golf courses, businesses, parks, airports</li> </ul>

#### Rural-urban fringe - border of city & countryside

• Greenfield Sites: area of countryside that has not been built on

Adv		Dis	
0	Better environment	0	Habitat destruction
0	More accessible	0	Increase pollution
0	Have room to build car parks next to shops/ for expansion	0	Gov protect areas
0	Cheaper		

• **Brown Field Site**: disused part of city suitable for redevelopment

Adv		Dis	
0	Redevelopment of land	0	Polluted site - expensive to clean
0	Near CBD	0	Limited room to expand
0	Good transport links	0	Increase pollution

#### **Industrial Areas**

#### **Factories were built:**

- As close as possible to the CBD but with enough space for expansion
- Near transport links → transport products
- Near sea → water supply, transport products
- Flat land → easy to build settlements

#### Characteristics of retail and business parks

- Modern
- Large area of land
- Areas of parking
- Large / specialist shops, entertainment eg restaurants, services eg car service centre

#### **Urban Growth in Urban Areas**

**Urbanisation** - Increase % of pop in urban areas

Rural areas - area of countryside that is not built up

**Urban areas** - Built up area with a large population & high order settlements

Urban sprawl - spread of urban into rural area

#### Explain why a greater % of pop live in urban areas in MEDCs than in LEDCs. (4)

- Urbanisation has been occuring for a longer period of time in MEDCs
- More industry developed in MEDCs
- MEDCs mainly industry
- LEDCs mainly farming





#### Explain why urbanisation is occuring in LEDCs. (4)

- Rural areas become built up
- Higher employment
- Better education, healthcare,
- More reliable water & food supplies

#### Explain why pop of many cities has grown rapidly. (4)

- Large amount of inward migration
- Ppl seeking employment
- Better education, heath care, electricity & water supplies
- Follow family & friends
- Bright lights entertainment

#### **Urban sprawl**

#### Explain why urban sprawl is occuring around urban areas? (3)

- More ppl living in urban areas for eg jobs
- No place to build in cities
- Ppl want large homes
- Settlements are joining together

#### Suggest reasons why residents of settlements are becoming increasingly concerned by urban sprawl? (5)

- Loss of farmland
- Increase house price
- Some rural residents can no longer afford to live in area
- Traffic congestion
- Deforestation...
- Atmospheric, noise, visual, water pollution
- Flooding
- Loss of open space

#### Problems of urban growth in urban areas

- Traffic congestion
- Pollution
- High crime rates
- Inadequate housing, education, medical care provision

#### **Traffic congestion**

#### Explain why many urban areas experience problems of traffic congestion. (3)

- High population density
- Increase in car ownership
- Rush hour
- Narrow roads
- Lots of tourist attractions, traffic lights

#### Explain how traffic & industry may each cause air pollution. (2)

- Traffic CO<sub>2</sub>
- Industry burning fossil fuels

#### Explain why traffic congestion is a problem in many urban areas. (5)

- Causes delays
- ppl late to work/school result in loss of revenue for businesses
- stress/road rage
- Time wasted
- Emergency services can't get through
- Air, noise pollution

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#### **Population and Settlement**

### Suggest ways in which public transport system developed to reduce traffic problems. (5)

- More regular buses, bus routes so all parts of city served by buses
- Install railway
- Increase capacity
- Park & ride ppl park on edge of city & uses buses to CBD
- Subsidise public transport

#### Solution

- One-way systems
- o By-passes
- o Park & Ride Schemes
- o Ring roads
- Improve public transport

#### **Pedestrian zones**

Benefits Proble	Problems	
Less air & noise pollution from vehicles	More difficult access for emergency vehicles Ppl may need to walk further Create traffic congestion	

#### **Squatter settlements**

#### Describe problems faced by ppl living in squatter settlements. (5)

- Poor quality building materials easily destroyed by storms
- Lack of electricity, clean water supplies (water borne disease)
- Overcrowding disease spreads easily lack of open space
- Inadequate waste disposal lack of hygiene

Characteristics		Explain why a large % of pop in LEDCs are living in squatter settlements (5)		Describe strategies used to improve housing conditions of ppl who live there (7)	
0 0 0	High population density High home density Lack of running water & electricity Poor sanitation Lack of privacy	0 0 0 0	Pop growing rapidly - not enough houses Ppl can't afford other housing Limited building space Lack of investment in housing from local authorities Can build squatter settlements themselves Often located close to work places	0 0 0 0 0 0	Donations of building materials Ppl being taught how to build Infrastructural improvements eg piped water Self-help Site & services schemes Build low cost housing
		0			

#### Suggest why land use changes are likely to cause conflict. (5)

- Some ppl don't wanto change
- Ppl have to move out
- More traffic congestion
- More air, noise & visual pollution
- New housing might be too expensive
- Unemployment

Air pollution - breathing difficulty

Noise - hard to concentrate/sleep - stress



Population and Settlement

Water - water borne disease

Visual - spoil views

Case study - Shrewsbury (county of Shropshire in Western England)

Cause of urban sprawl	<ul> <li>O Green field site</li> <li>O Retail park eg Meole Brace</li> <li>O New housing estates built at Nobold → ↑sphere of influence</li> <li>O New road infrastructure eg A5 widened</li> <li>O New park &amp; ride bus services eg Meole Brace → ↑accessibility</li> </ul>
Problems	<ul> <li>New housing estate at Nobold → loss of greenspace &amp; access to countryside</li> <li>Environmentalists concern damage to natural habitat from buildings North West relief road</li> <li>Meole Brace retail park → impermeable surface → greater surface runoff → flood</li> <li>Traffic congestion at Meole Brace retail park → pollution, health problems</li> </ul>
Solutions	<ul> <li>One-way system, By-pass, A5 widened → ↑traffic flow around town</li> <li>Putting cobbles on streets to deter motorists driving into historic town &amp; control speed</li> <li>3 Park &amp; Ride Schemes on outskirts where ppl park for free &amp; pay a small fee to catch a bus eg south of Meole Brace retail park → ↓car to town centre</li> <li>Investment in public transport</li> <li>High parking costs in town centre</li> </ul>