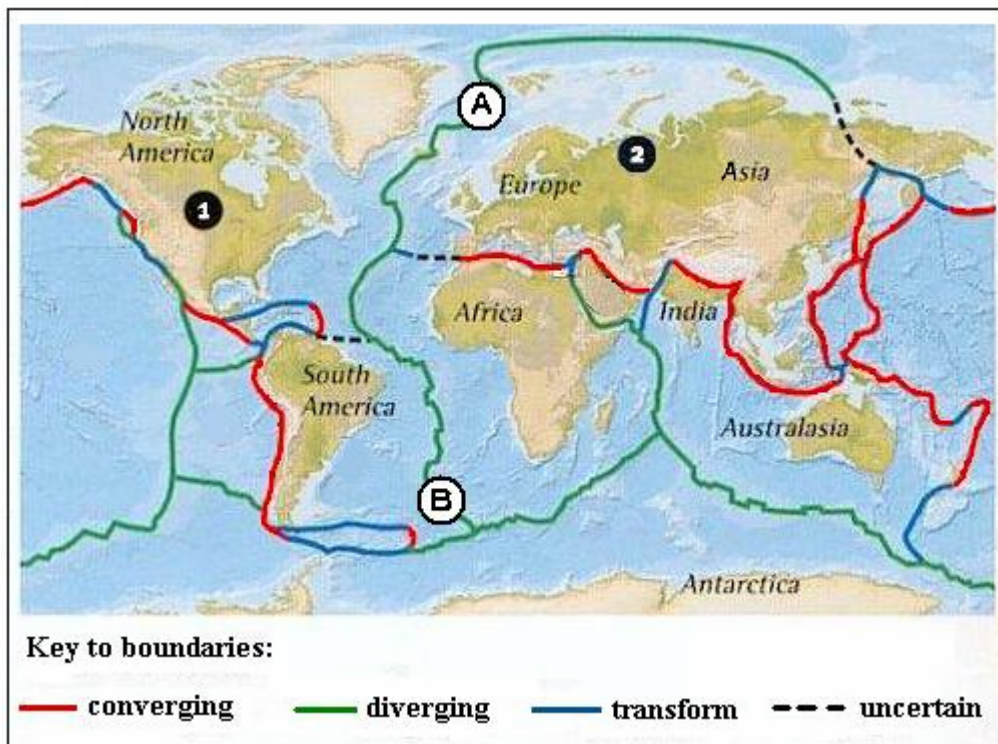1.   **CRUSTAL PLATES**

Crustal Plates

Examine the map showing the world's principal crustal plates.

(i)   Name the crustal plate labelled "1". _____

(ii)   Name the crustal plate labelled "2". _____

(iii)   Name the ocean feature which results from plates separating along the line labelled

          A – B. _____

2.   **ROCKS**

Complete the three-piece crossword using these clues:

1.   Coarse red or brown sedimentary
        rock found in the mountains of Munster.

2.   A coarse multi-coloured, igneous rock.

3.   Rocks which were changed by
        great pressure or heat.
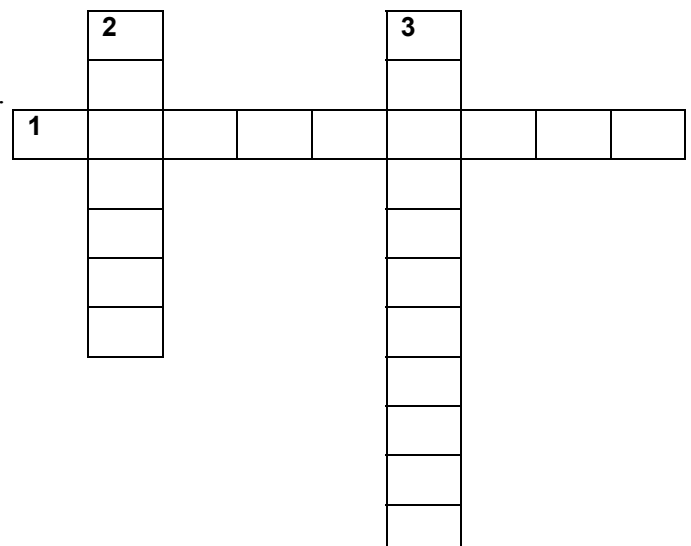
3.   **MASS MOVEMENT**

The type of mass movement illustrated in the diagrams is:
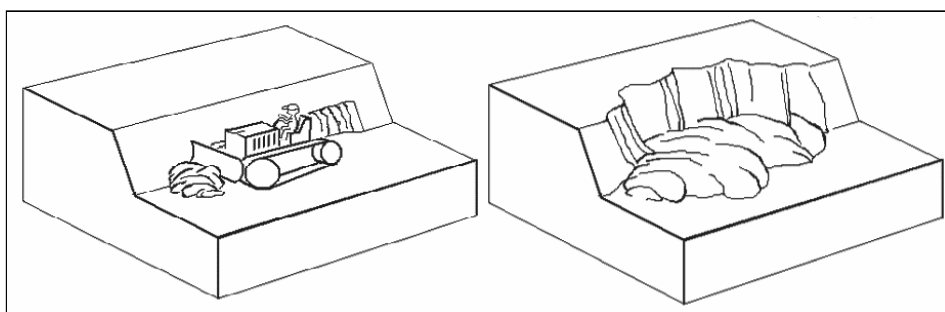*Tick (✔) the correct box.*
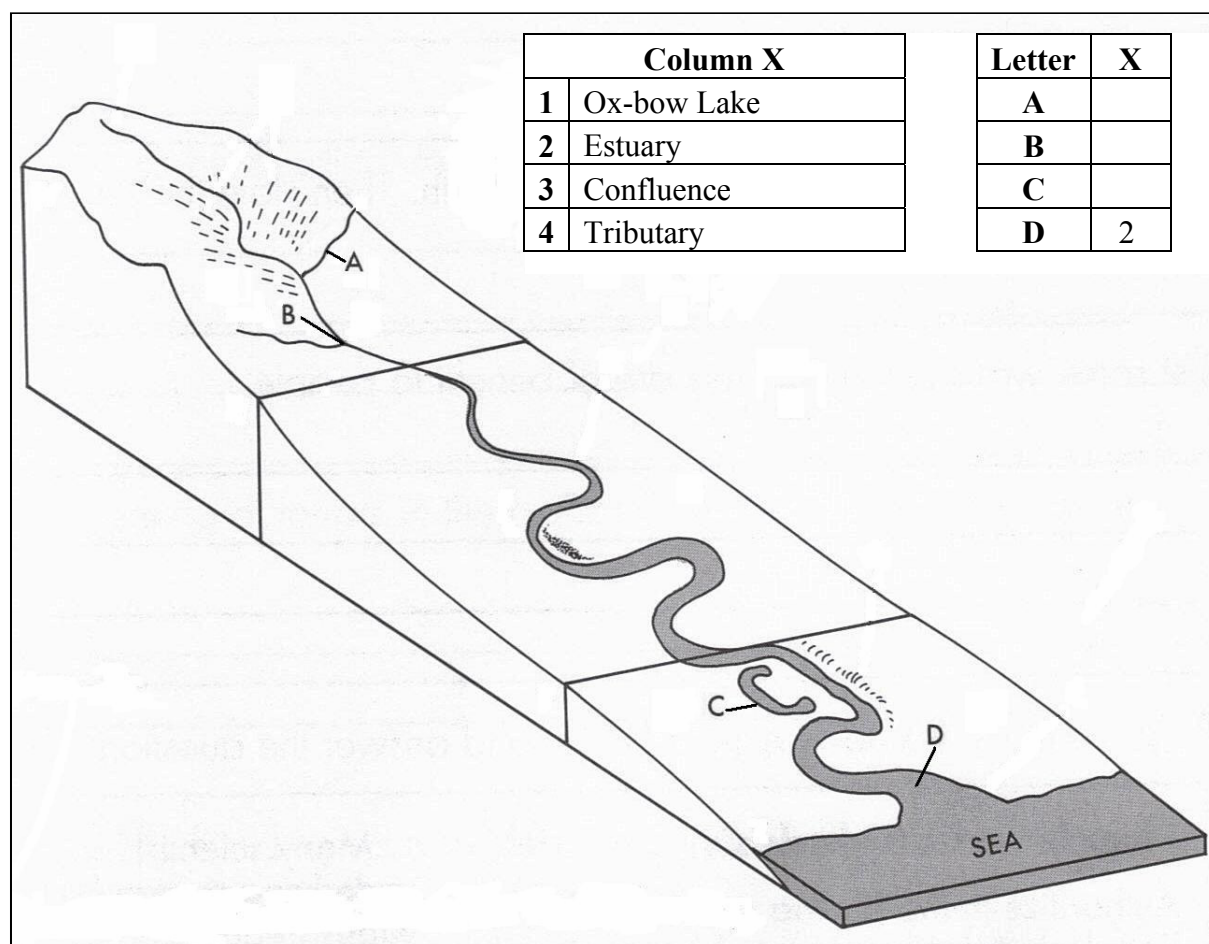
Soil Creep ☐

A Mudflow ☐

A Landslide ☐

A Bogburst ☐

4.   **RIVERS**

In the boxes provided, match **each** of the letters **A** to **D** in the diagram with the number of its pair in Column X. One pair has been completed for you.

	Column X	Letter	X
1	Ox-bow Lake	A	
2	Estuary	B	
3	Confluence	C	
4	Tributary	D	2

5.   **CLIMATE STATISTICS**

Examine the temperature and precipitation statistics for a town in Central Europe

	J	F	M	A	M	J	J	A	S	O	N	D
Temperature (°C)	-4.5	-0.5	2.5	6.0	8.5	12.5	16.0	17.5	12.5	6.5	2.0	-1.0
Precipitation (mm)	11	15	42	36	62	75	99	97	31	32	24	19

Circle the correct answer in **each** of the following statements:

(i)   The warmest month is *July / August.*

(ii)   The annual temperature range is *22°C / 13°C*

(iii)   A *hygrometer/rain gauge* was used to measure rainfall levels to make this chart.

6.   **TEMPERATURE MAP**

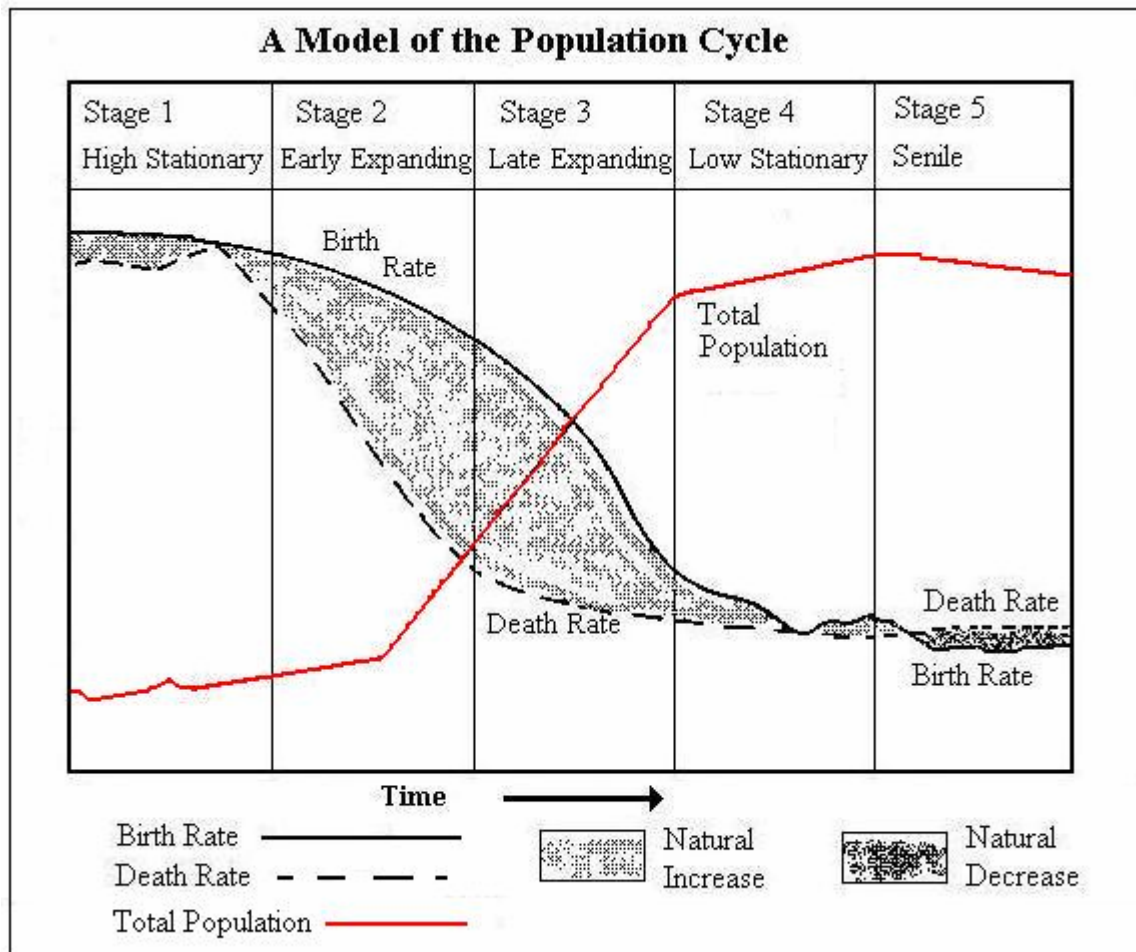Examine the August temperature map of Ireland.
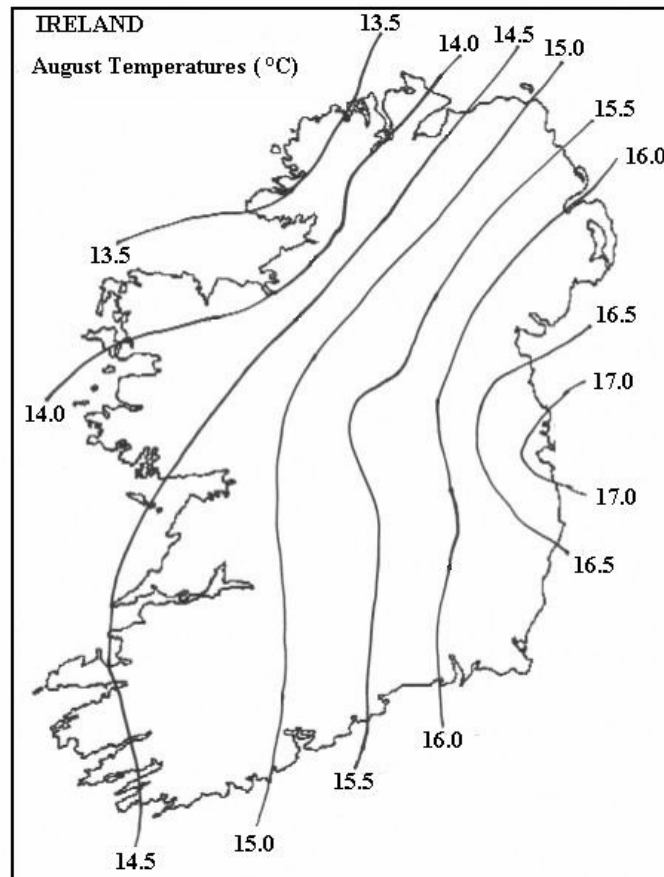
Circle the correct answer in **each** of the following statements.

(i)   The coolest part of Ireland is *the north east / the north west*.

(ii)   The warmest region has a temperature of *just over 17°C / just under 17° C.*

(iii)   The lines on the map joining places of equal temperature are called *isobars / isotherms*.

7. POPULATION CHANGE.

Examine the diagram showing the population cycle.

A Model of the Population Cycle

Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
High Stationary	Early Expanding	Late Expanding	Low Stationary	Senile

Birth Rate

Total Population

Death Rate

Death Rate

Birth Rate

Time →

Birth Rate ———
Death Rate – – – –
Total Population ———

Natural Increase

Natural Decrease

(i) At which of the five stages shown is the death rate highest? _____

(ii) At which of the five stages is the total population increasing most rapidly? _____

(iii) At which of the five stages is there an overall decrease in the total population? _____

8. POPULATION STRUCTURE

Examine the diagram, which represents the structure of the population of a small urban area.
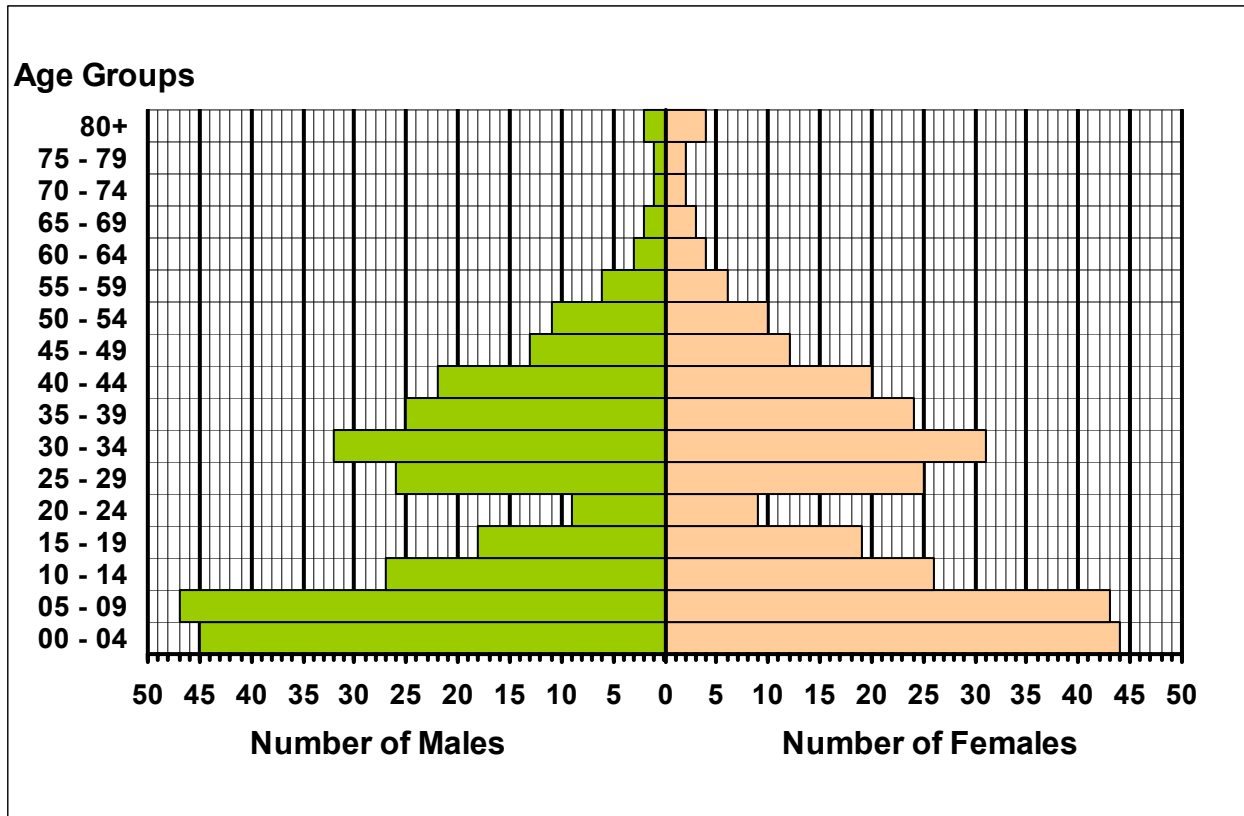
Age Groups

(i) How many males are there in the 0 – 4 age group? _____

(ii) This diagram represents an area where *young families / very old people* make up most of the population. (*Circle the correct option.*)

(iii) What name is given to this type of diagram? _____

9.   GRAPH DRAWING

The bars represent the information given in the table of figures. Draw in the bars for Belgium, Ireland and Poland.

Table of figures
Expected population change between 2004 and 2050 in a number of countries.

Country	*Percentage change*
Belgium	**+5**
France	**+10**
Italy	**-9**
Ireland	**+36**
Netherlands	**+7**
Poland	**-12**
United Kingdom	**+8**
(Source: Irish Times, 9 April 2005)	

% Population Change 2004 to 2050
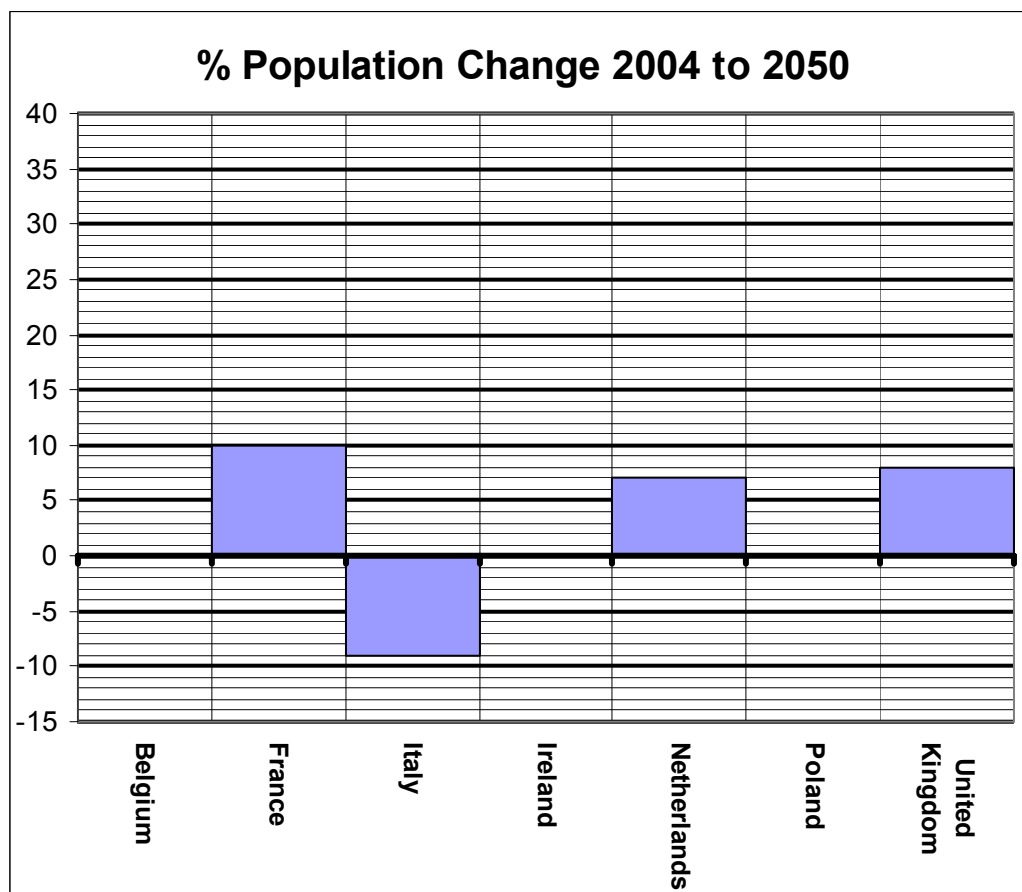
10. SETTLEMENT

In the boxes provided match **each** letter in Column X with the number of its pair in Column Y. One pair has been completed for you.
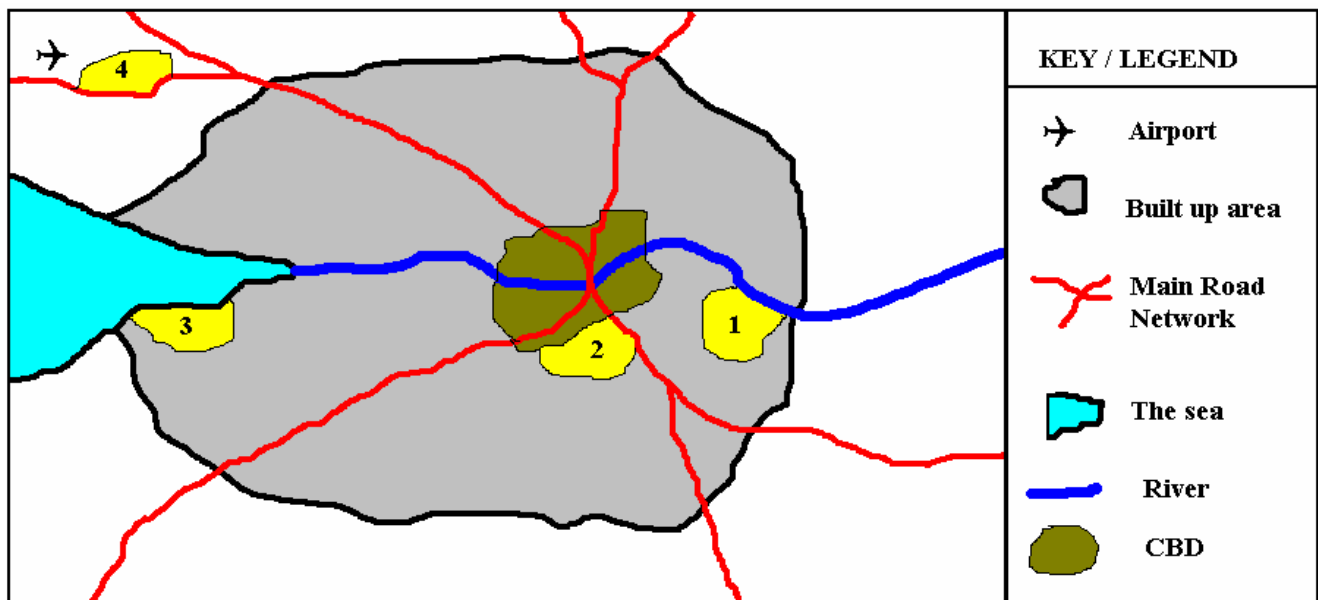
Column X		Column Y	
A	Tallaght	1	Land reclaimed from the sea
B	Mali	2	Shanty towns
C	Polders	3	New town
D	Bustees	4	Low population density

X	Y
A	3
B	
C	
D	

11. FUNCTIONAL ZONES WITHIN CITIES

Study the sketch map showing some functional zones within a city.

In the boxes provided, match **each** of the numbers **1** to **4** in the sketch map with the letter of its pair in Column X. One pair has been completed for you.

Column X		X	Number
A	Dockside Industries	A	
B	Older Residential Area	B	
C	Modern Industrial Estate	C	
D	Newer Residential Area	D	1

12.   ASPECTS OF SETTLEMENT

Read the statements below. Not all of the statements are true.

1.   Dolmens, ring forts and castles are all signs of former settlement.

2.   A village which clusters around a road junction has a ribboned settlement pattern.

3.   The West of Ireland is more densely populated than the East of Ireland.

4.   Land values usually increase towards the centre of a city.

5.   The River Rhine flows through Germany but enters the sea in The Netherlands.

The correct statements are numbered:
Tick (✔) the correct box.

1, 4, 5   ☐

1, 3, 4   ☐

2, 3, 4   ☐

2, 4, 5   ☐

ANSWER EITHER 13A OR 13B

13A.   EXPLOITING IRELAND'S PEAT BOGS

Circle the correct answer in **each** of the following statements:

(i)   Drains are dug in the bogs by machines called *drainers / ditchers*.

(ii)   Small amounts of peat are scraped off the bogs and torn up into small fragments by machines called *graders / millers*.

(iii)   In bygone days, hand tools called *sleans / harrows* were used to cut sods of turf from the bog.

OR

13B.   PRIMATE CITIES

A primate city
Tick (✔) the correct box.

Is the city in which a country's parliament meets.   ☐

Is the oldest city in a country.   ☐

Is a place from which people commute to and from work each day.   ☐

Has at least twice the human population of any other city in a country.   ☐

14A. **SOIL.**

Choose **three terms** from the selection box to fill the gaps in the extract below.

<u>**Selection Box.**</u>
Leaching;   Micro organisms;   Humus;   Mineral particles;   Podzols;   Hard pans
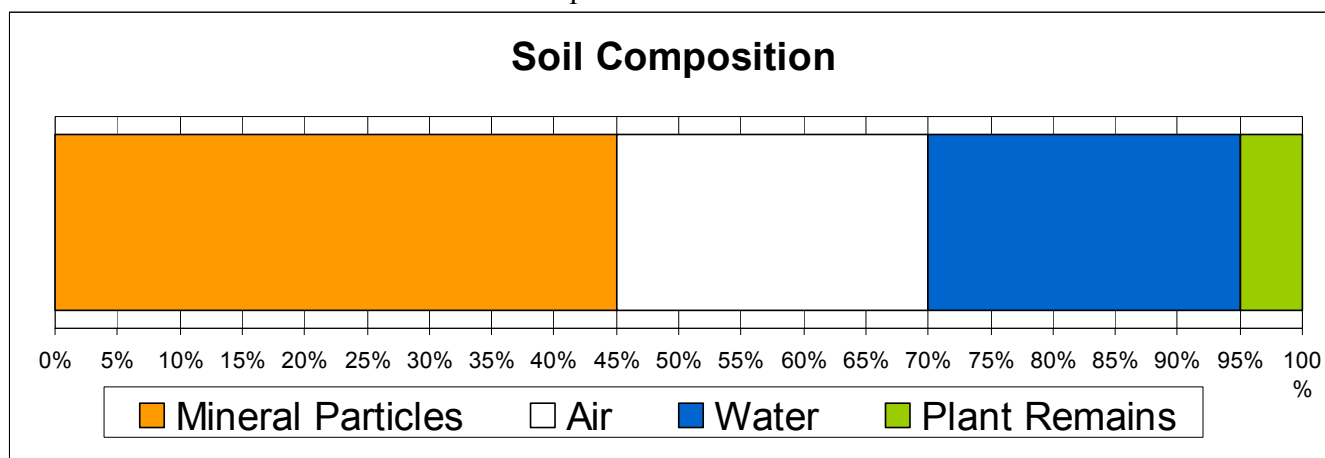
"The breakdown of plant litter into _____ helps to fertilise soil.

Processes such as _____ may damage soil fertility by causing

nutrients to seep below the reach of plant roots. _____ are a type of
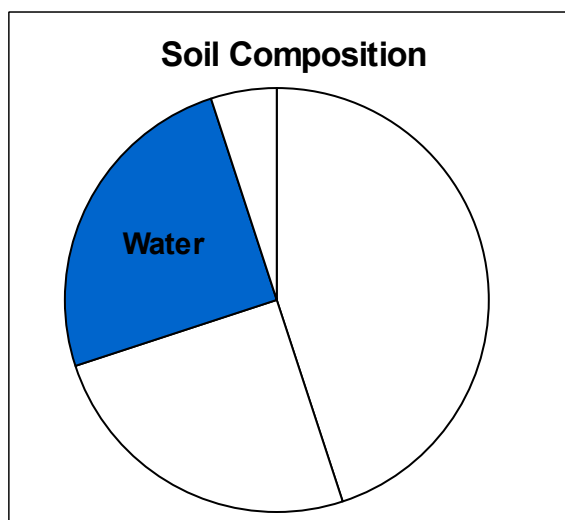
soil commonly found in damp highland areas in Ireland.

OR

14B. **SOIL**
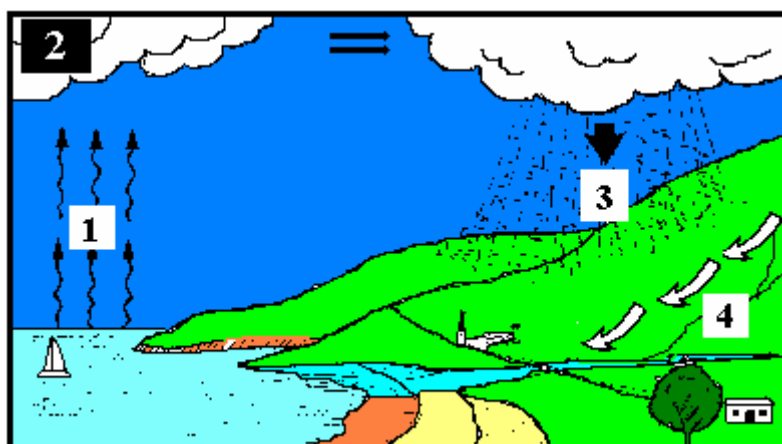
The divided bar chart shows the composition of soil.

Soil Composition

0% 5% 10% 15% 20% 25% 30% 35% 40% 45% 50% 55% 60% 65% 70% 75% 80% 85% 90% 95% 100%

☐ Mineral Particles   ☐ Air   ☐ Water   ☐ Plant Remains

Label the pie-chart, using the information on the divided bar.

Soil Composition

Water

15A THE WATER CYCLE

Study the diagram of the water cycle.

In the boxes provided match **each** of the numbers **1** to **4** in the diagram with the letter of its pair in Column X. One pair has been completed for you.
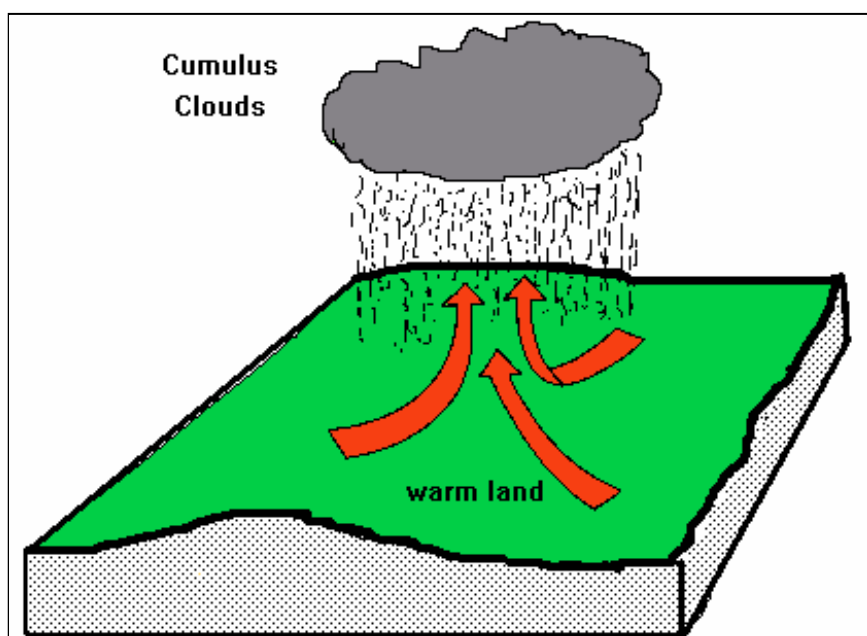
Column X			X	Number
A	Precipitation		**A**	
B	Condensation		**B**	2
C	Run off and Soakage		**C**	
D	Evaporation		**D**	

OR

15B TYPES OF RAINFALL

Study the diagram below

The diagram shows
Tick (✓) the correct box.

Relief Rainfall ☐

Convectional Rainfall ☐

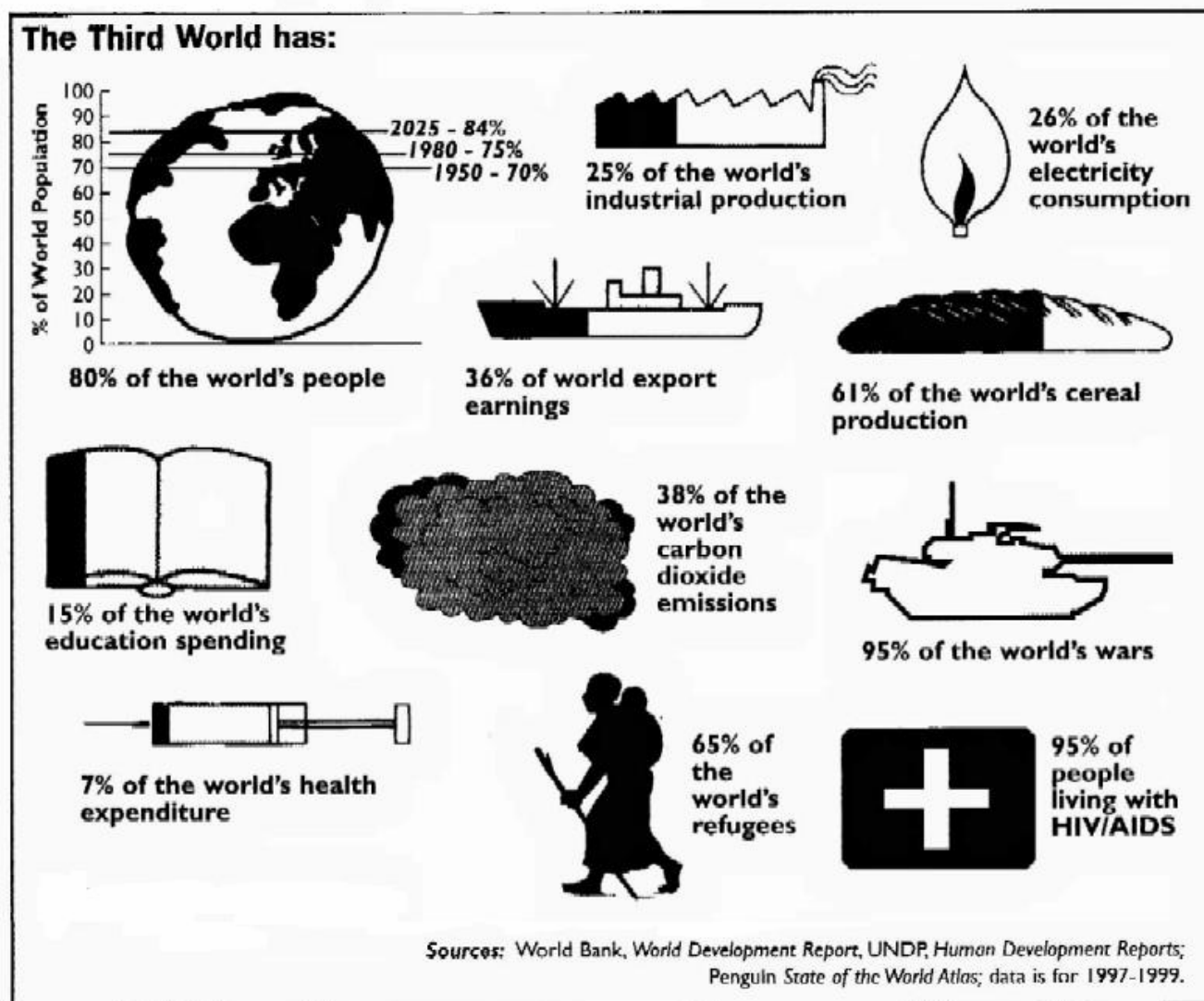Cyclonic/Frontal Rainfall ☐

16. THE THIRD WORLD

Examine the information given about the Third World.

The Third World has:

- 80% of the world's people
- 2025 – 84%, 1980 – 75%, 1950 – 70%
- 25% of the world's industrial production
- 26% of the world's electricity consumption
- 36% of world export earnings
- 61% of the world's cereal production
- 15% of the world's education spending
- 38% of the world's carbon dioxide emissions
- 95% of the world's wars
- 7% of the world's health expenditure
- 65% of the world's refugees
- 95% of people living with HIV/AIDS

Sources: World Bank, *World Development Report*, UNDP, *Human Development Reports;* Penguin *State of the World Atlas;* data is for 1997-1999.

Read the statements below. Not all of the statements are true.
Identify the true statements by *ticking (✔) the correct box.*

1. The Third world has more than three quarters of the world's people.
2. Most of the world's carbon dioxide emissions come from the Third World.
3. The Third World has less than one-tenth of the world's health expenditure.
4. Most of the world's cereal production is in the Third World.
5. 36% of the world's industrial production is in the Third World.
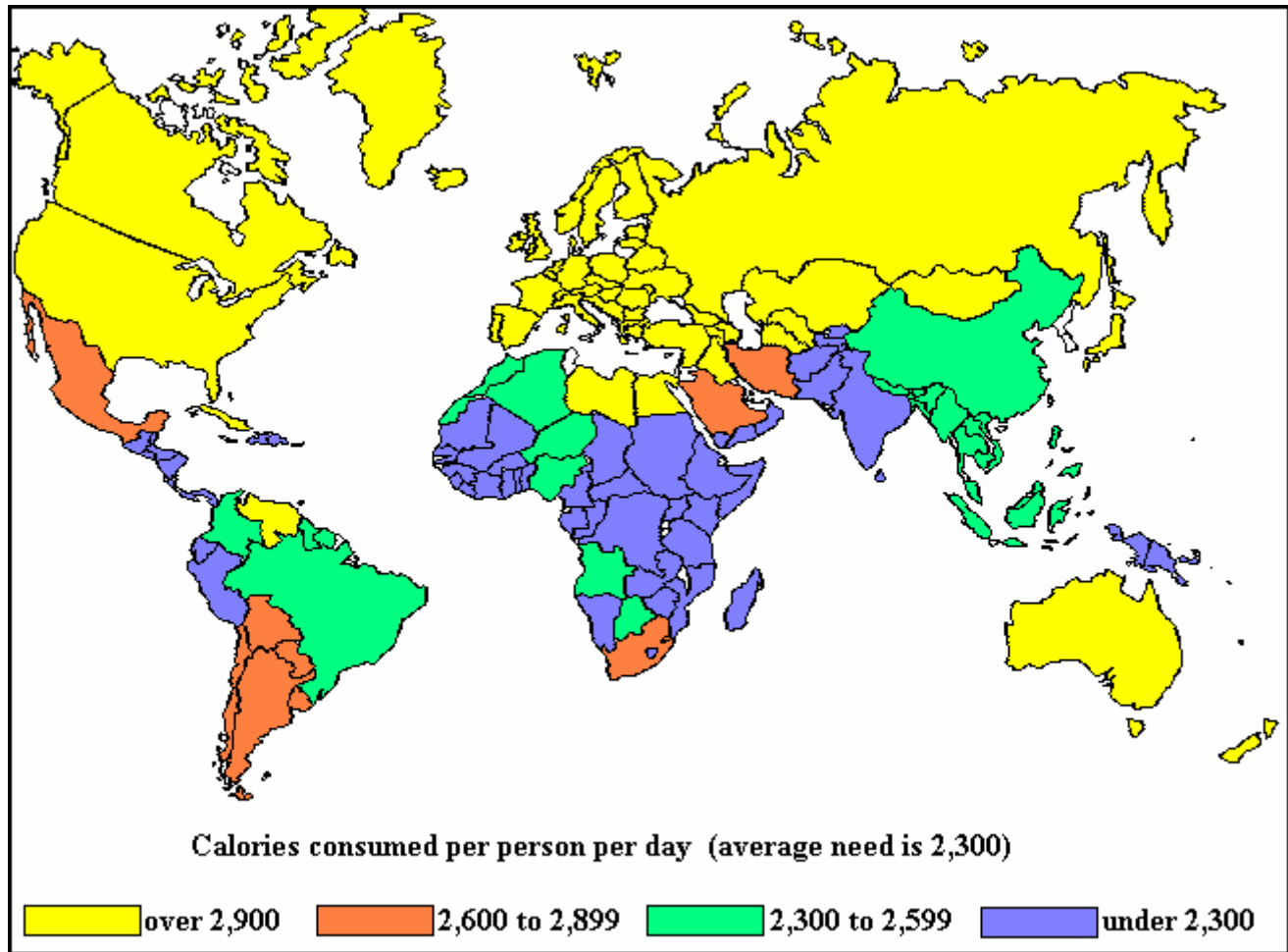
The true statements are

1, 2, 3 ☐

2, 3, 4 ☐

1, 3, 4 ☐

3, 4, 5 ☐

17. HUNGER AND PLENTY

The map shows average daily calorie intakes in different countries.

Calories consumed per person per day (average need is 2,300)

| over 2,900 | 2,600 to 2,899 | 2,300 to 2,599 | under 2,300 |

Write the daily calorie intake per person in **each** of the following countries:
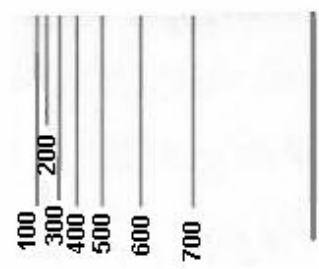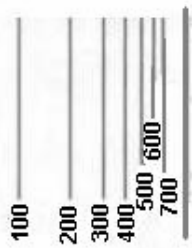
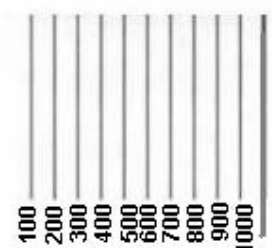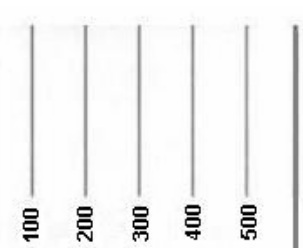**In Ireland** _____

In Brazil _____

In Mali _____

18.   ORDNANCE SURVEY - SLOPES

In the boxes provided, match **each** letter in Column X with the number of its pair in Column Y. One pair has been completed for you.

Column X	Column Y	X	Y
A	1	A	
B	2	B	3
C	3	C	
D	4	D	

19.   ORDNANCE SURVEY – GRID REFERENCES
Study the ORDNANCE SURVEY map provided.

In the boxes provided, match each letter in column X with the number of its pair in column Y. One pair has been completed for you.

Column X		Column Y		X	Y
A	V 957 856	1	Cathedral	A	2
B	V 933 927	2	Devil's Island	B	
C	V 959 908	3	Caravan Site	C	
D	V 908 923	4	Viewpoint	D	

20.   **ORDNANCE SURVEY - AREA**

Examine the ORDNANCE SURVEY map provided with this examination.

Lough Leane and Muckross Lake together have an approximate area of .

Tick (✓) the appropriate box

14 square kilometres ☐

19 square kilometres ☐

22 square kilometres ☐

25 square kilometres ☐