

Write your name here

Surname	Other names
---------	-------------

Centre Number	Candidate Number
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

**Edexcel GCE**

**Geography**  
**Advanced Subsidiary**  
**Unit 1: Global Challenges**

Friday 14 January 2011 – Morning <b>Time: 1 hour 30 minutes</b>	Paper Reference <b>6GE01/01</b>
--	------------------------------------

<b>You must have:</b> Resource Booklet (enclosed)	Total Marks
--	-------------

### Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **ALL** questions in Section A and **ONE** question in Section B.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*

### Information

- The total mark for this paper is 90.
- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (\*) are ones where the quality of your written communication will be assessed  
– *you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.*

### Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Spend approximately one hour on Section A and 30 minutes on Section B.
- Check your answers if you have time at the end.

Turn over ►

M38009A

©2011 Edexcel Limited.

1/1/1/1/1



**edexcel**   
advancing learning, changing lives

## SECTION A

Answer ALL questions.

You must use the Resource Booklet.

You are advised to spend approximately one hour on Section A.

Some questions must be answered with a cross in a box ☐. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☐.

1 Study Figure 1.

- (a) Identify **two** types of major hydro-meteorological hazard other than different types of storm.

(2)

1 .....

2 .....

- (b) Which is the correct statement of the disaster risk equation?

Put a cross in the correct box.

(1)

<b>A</b>	$\frac{\text{Hazards} \times \text{Capacity to cope}}{\text{Vulnerability}}$	<input type="checkbox"/>
<b>B</b>	$\frac{\text{Hazards} \times \text{Vulnerability}}{\text{Capacity to cope}}$	<input type="checkbox"/>
<b>C</b>	$\frac{\text{Capacity to cope} \times \text{Vulnerability}}{\text{Hazards}}$	<input type="checkbox"/>
<b>D</b>	$\frac{\text{Coping potential} \times \text{Vulnerability}}{\text{Risk capacity}}$	<input type="checkbox"/>



(c) How might global warming increase hurricane disaster risk?

(3)

(d) Explain how human factors have contributed to the increased reporting of earthquake disasters.

(5)

**(Total for Question 1 = 11 marks)**



2 Study Figure 2.

(a) Identify which **three** of the following actions are examples of climate change mitigation.

(3)

- A** building higher flood walls
- B** constructing wind turbines
- C** improving flood warning systems
- D** improving hurricane monitoring
- E** using recycling schemes
- F** greater use of nuclear power

1 .....

2 .....

3 .....

(b) Describe the strengths and weaknesses of adaptation as a way of managing climate change.

(4)

Strengths

.....

.....

.....

.....

Weaknesses

.....

.....

.....

.....



(5)

**(Total for Question 2 = 12 marks)**



3 Study Figure 3.

(a) Which region has most areas showing a predicted decrease in flood risk?

Put a cross in the correct box.

(1)

- ☐ **A** South-east England
- ☐ **B** South-west England
- ☐ **C** North-east England
- ☐ **D** Midlands
- ☐ **E** Wales

(b) Explain **two** ways in which climate change may lead to an increase in river flooding.

(4)

1 .....

.....

.....

.....

2 .....

.....

.....

.....



(5)

**(Total for Question 3 = 10 marks)**



4 Study Figure 4.

(a) Which European country has the largest number of Tesco stores outside the UK? (1)

(b) Identify **two** continents which have no Tesco stores.

Put a cross in the correct box.

(1)

- ☐ A Asia and Africa
- ☐ B Asia and Europe
- ☐ C North America and South America
- ☐ D South America and Africa
- ☐ E North America and Africa

(c) Suggest reasons why Tesco stores have not been opened in some continents. (3)

.....

.....

.....

.....

.....

.....





(5)

M 3 8 0 0 9 A 0 9 2 0

**5** Study Figure 5.

- (a) Identify the year in which net migration (the difference between immigration and emigration) was at its greatest.

Put a cross in the correct box.

(1)

- ☐ **A** 2006
- ☐ **B** 2004
- ☐ **C** 2002
- ☐ **D** 2000
- ☐ **E** 1998

- (b) State the reason immigration to the UK rose sharply in 2004.

(1)

- (c) Compare the immigration and emigration trends shown.

(3)



(5)

**(Total for Question 5 = 10 marks)**



6 Study Figure 6.

(a) Identify which **two** of the following statements are most likely to apply to the 1901 family.

(2)

- W** The mother describes herself as 'Asian British'
- X** Three generations live in the same house
- Y** The eldest child works full time in a local textile factory
- Z** All the children aspire to study at university

1 .....

2 .....

(b) State **one** reason for falling fertility in the UK since 1901.

(1)

.....

.....

(c) What research sources could be used to investigate social and economic changes in a local population?

(4)

.....

.....

.....

.....

.....

.....

.....

.....



(d) Explain why many European nations, such as the UK, have experienced large-scale immigration from their former colonies since the 1950s.

(5)

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

**(Total for Question 6 = 12 marks)**

**TOTAL FOR SECTION A = 65 MARKS**



## SECTION B

Answer ONE question in this section.

Use the evidence provided in the Resource Booklet and your own ideas.  
You are advised to spend approximately 30 minutes on Section B.

**\*7** Study Figure 7.

- (a) Suggest why some places are at more risk than others of experiencing a major volcanic disaster. (10)
- (b) Explain why the Philippines and California multiple hazard hotspots are affected by disasters in different ways. (15)

**(Total for Question 7 = 25 marks)**

**\*8** Study Figure 8.

- (a) Suggest reasons for the differences in carbon dioxide emissions shown. (10)
- (b) Examine the evidence used to investigate long, medium and short-term climate change. (15)

**(Total for Question 8 = 25 marks)**

**\*9** Study Figure 9.

- (a) Explain how technological innovations have contributed to a 'shrinking world' for many people. (10)
- (b) Using examples, examine how nations are classified into different types of global groupings. (15)

**(Total for Question 9 = 25 marks)**

**\*10** Study Figure 10.

- (a) Suggest reasons for the changes shown in the size and distribution of megacities. (10)
- (b) Using examples, explain the challenges of rapid megacity growth. (15)

**(Total for Question 10 = 25 marks)**



Chosen Question Number:

**Question 10** 



Handwriting practice area with 20 sets of dotted lines on a lined background.





Handwriting practice area with 20 sets of dotted lines on a lined background.



Handwriting practice area with 20 sets of dotted lines on a lined background.



Handwriting practice area with 20 sets of dotted lines on a lined background.



Handwriting practice area with 20 horizontal dotted lines.

**TOTAL FOR SECTION B = 25 MARKS**  
**TOTAL FOR PAPER = 90 MARKS**



**Edexcel GCE**

# **Geography**

**Advanced Subsidiary**

**Unit 1: Global Challenges**

**RESOURCE BOOKLET**

Friday 14 January 2011 – Morning

Paper Reference

**6GE01/01**

**Do not return the Resource Booklet with the question paper.**

*Turn over ►*

**M38009A**

©2011 Edexcel Limited.

1/1/1/1/1

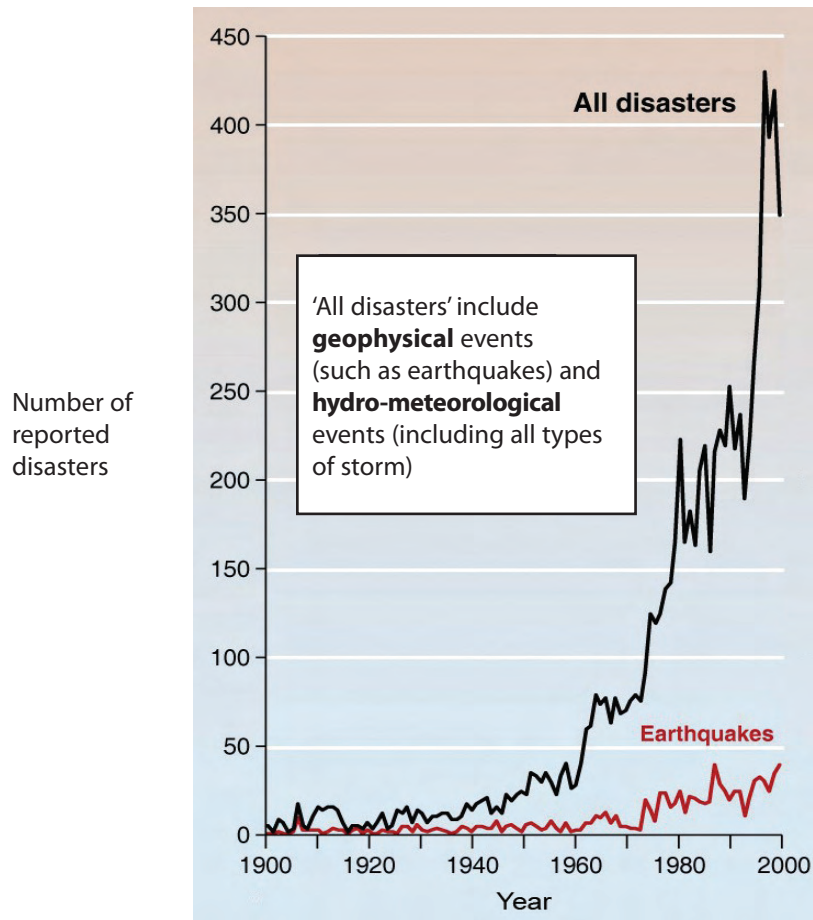


**edexcel**   
advancing learning, changing lives

## SECTION A

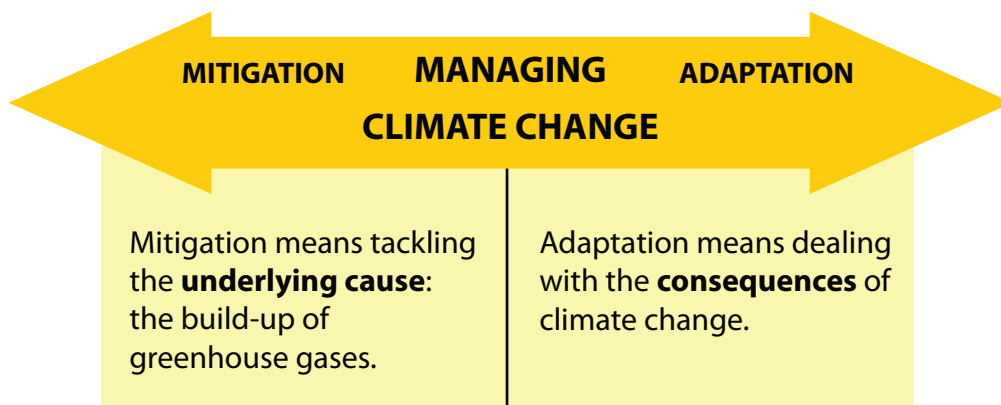
The following resources relate to Questions 1–6.

**Figure 1** World trends in the number of reported disasters per year 1900–2000

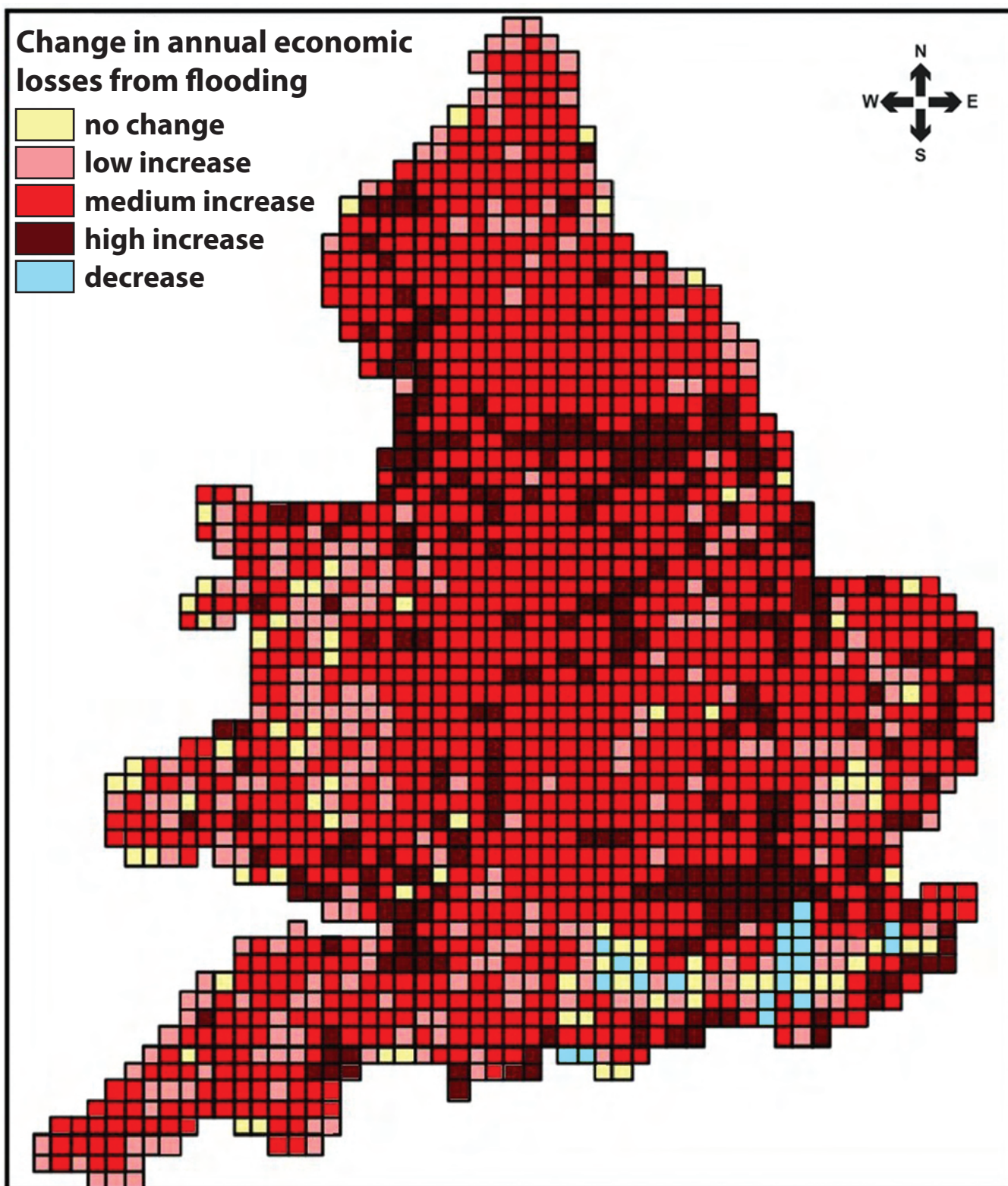


(Source: Emmanuelle Bournay, UNEP/GRID-Arendal)

**Figure 2** Ways of managing climate change

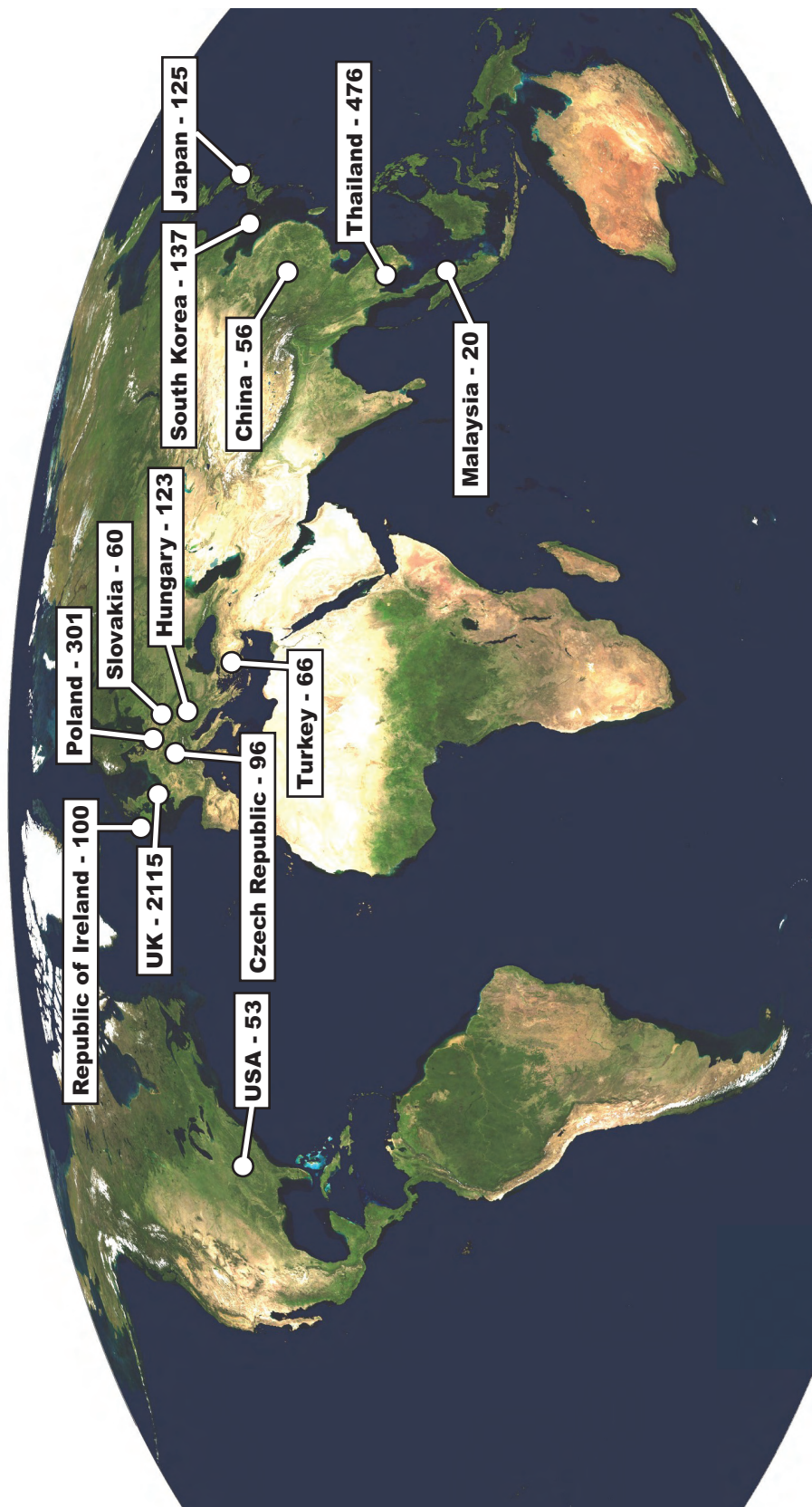


**Figure 3** Predicted changes in flood risk for England and Wales by 2080



**Figure 4**

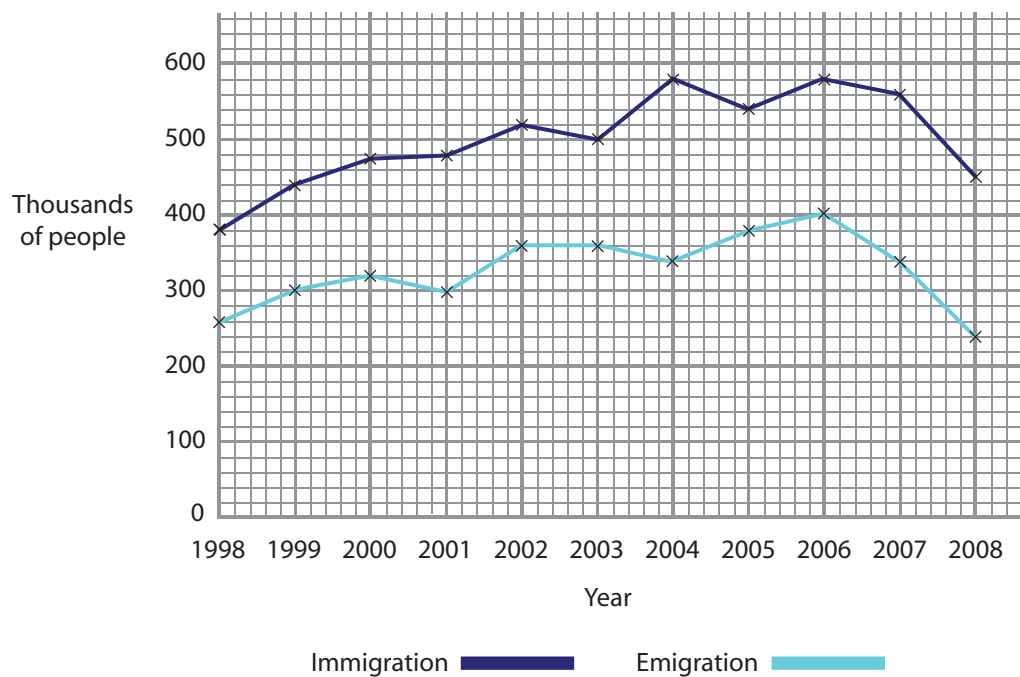
**The number of Tesco stores worldwide in 2010. Tesco is a UK retail Transnational Corporation (TNC)**



(Source: [www.tescopl.com](http://www.tescopl.com))




**Figure 5** Immigration and emigration trends for the UK 1998–2008



(Source: [www.statistics.gov.uk/](http://www.statistics.gov.uk/))

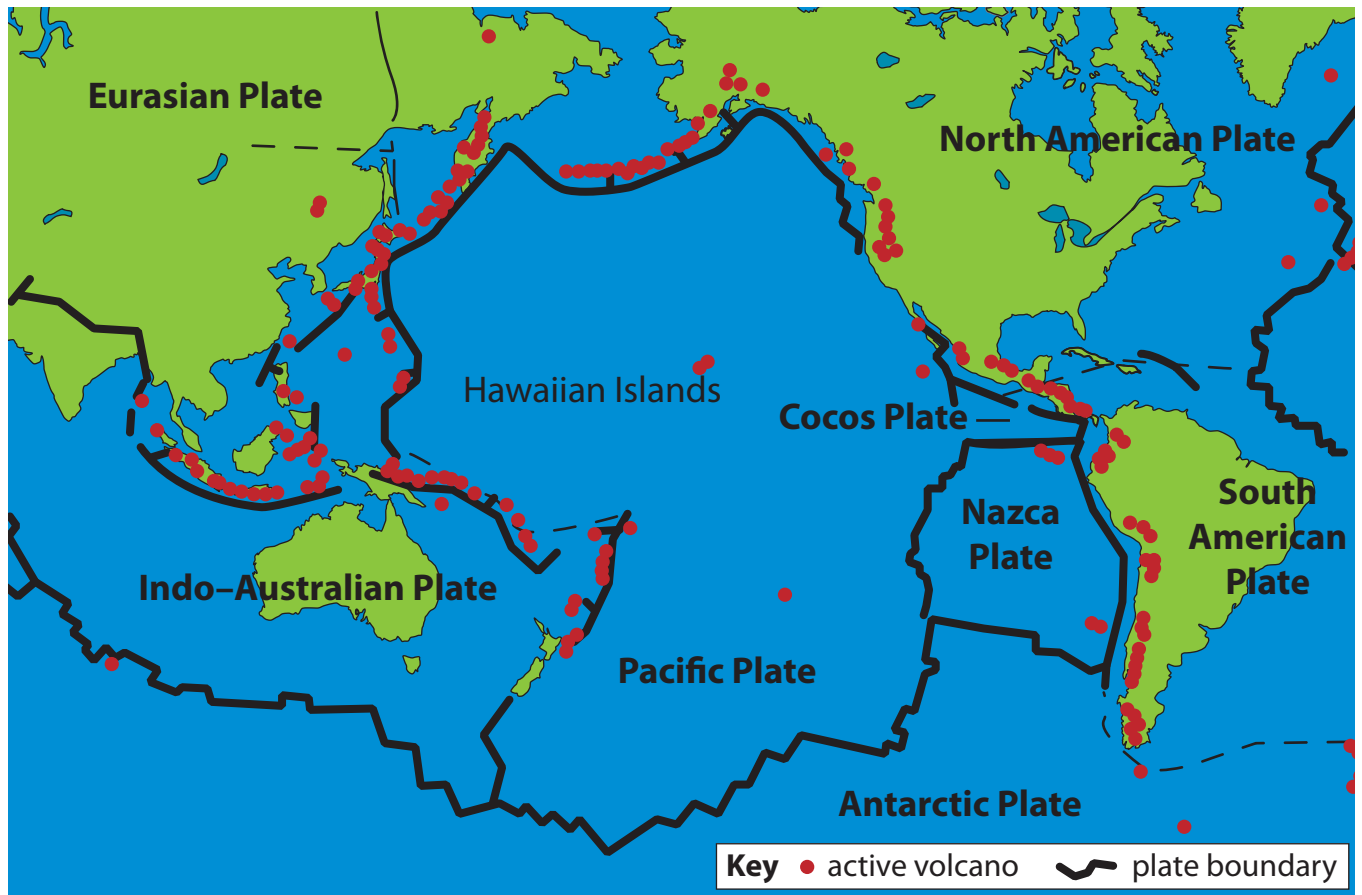
**Figure 6** An inner London house and the families living there in 1901 and 2011

1901		2011		
Name	Age		Name	Age
Eliza Hunter (F)	73		David Goodwin (M)	47
William Hunter (M)	38		Rupal Goodwin (F)	48
Doris Hunter (F)	36		Samira Goodwin (F)	13
Frank Hunter (M)	15		Jasmine Goodwin (F)	11
Harold Hunter (M)	14			
Betsy Hunter (F)	11			
Emma Hunter (F)	10			
Richard Hunter (M)	8			
Susan Hunter (F)	5			

## SECTION B

The following resources relate to Questions 7–10.

**Figure 7** The distribution of volcanic activity in the Pacific region

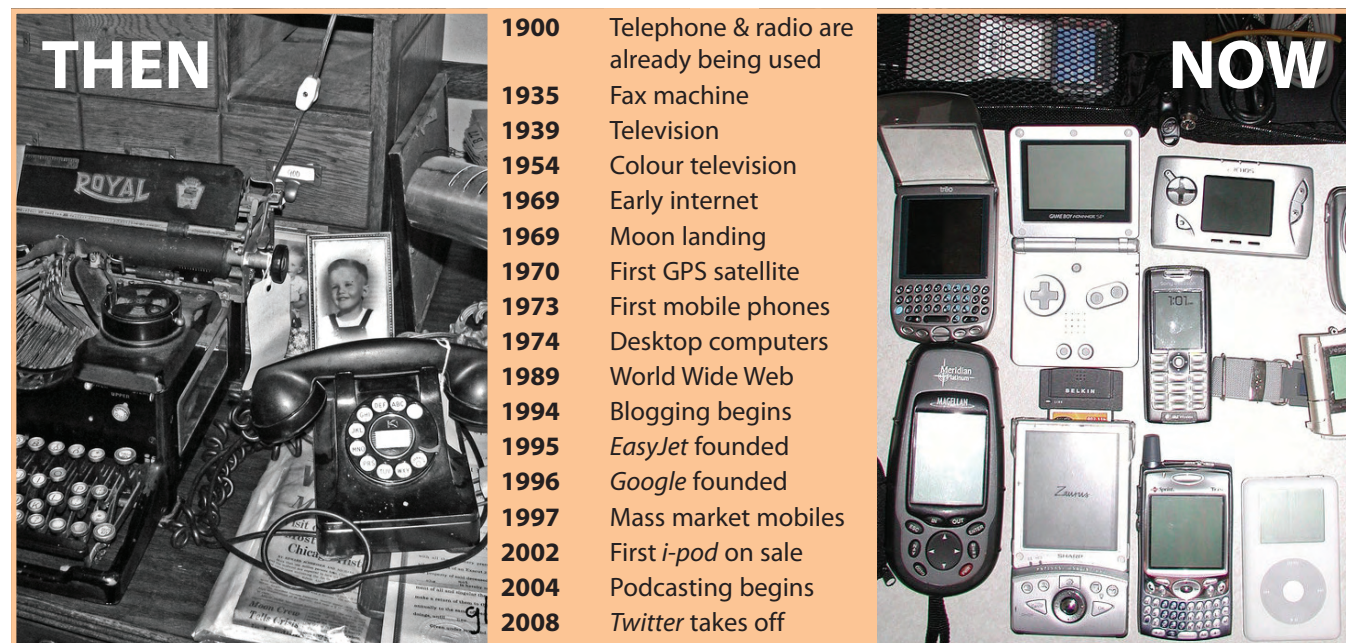


**Figure 8** GDP per capita, total greenhouse gas emissions (shown as carbon dioxide equivalent) and CO<sub>2</sub>(e) emissions per capita for selected countries, 2007

Country	Gross Domestic Product (GDP) per capita (US \$)	Total CO <sub>2</sub> (e) emissions (millions of tonnes)	CO <sub>2</sub> (e) emissions per capita (tonnes)
USA	47,440	5,769	19.1
China	3,259	6,028	4.6
Brazil	8,295	347	1.8
Bangladesh	521	40	0.2
Singapore	38,972	45	9.8
Saudi Arabia	18,855	358	14.8

(Source: www.iea.org)

**Figure 9** A 'shrinking world' timeline of technological innovation



**Figure 10    The changing size and distribution of world megacities**

