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Surname

Other names

Pearson
Edexcel GCSE

Centre Number

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Candidate Number

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Geography A

Unit 1: Geographical Skills and Challenges

Foundation Tier

Tuesday 24 May 2016 – Afternoon

Time: 1 hour

Paper Reference

5GA1F/01

You must have:

Resource Booklet (enclosed)

Ordnance Survey Map Extract (enclosed)

Total Marks

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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.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 54.
- 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.*
- The marks available for spelling, punctuation and grammar are clearly indicated.

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

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PEARSON

SECTION A – GEOGRAPHICAL SKILLS

Answer ALL questions in this section.

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 (a) Study the Ordnance Survey (OS) map extract and Figure 1a (photograph) and 1b in the Resource Booklet.

(i) Identify the settlement shown within the dotted line (Figure 1a).

(1)

- A Hope Bowdler
- B Church Stretton
- C Little Stretton
- D Leebotwood

(ii) From the top of Caer Caradoc, what is the compass direction of All Stretton (4695)?

(1)

- A West
- B South west
- C North east
- D South

Study the OS map extract and Figure 1b.

(iii) What is the distance along the primary route road between points A (464950) and B (452928) shown on Figure 1b?

(1)

- A 1.5km
- B 2.0km
- C 2.5km
- D 3.0km

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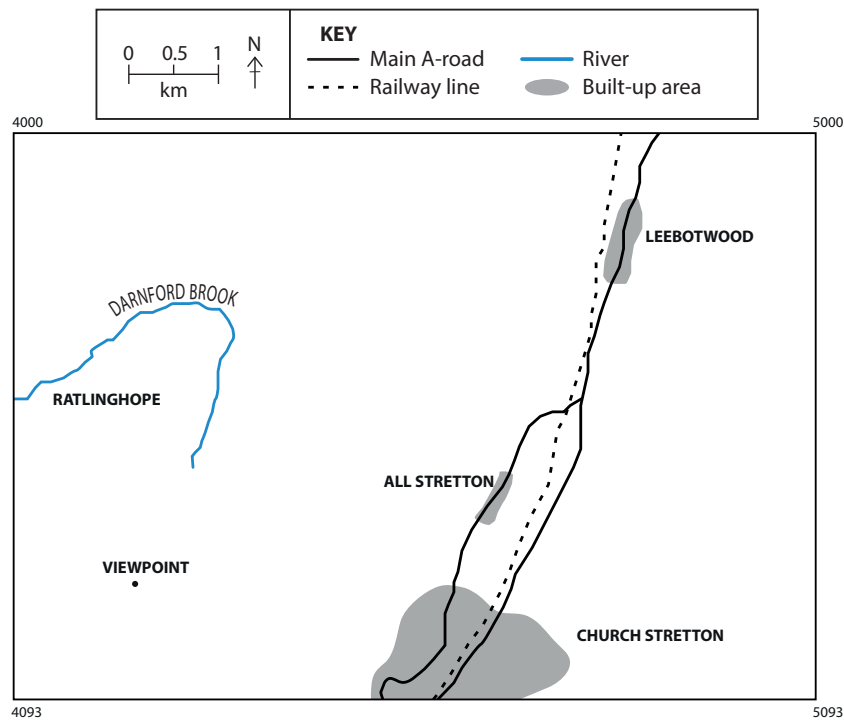


Figure 1c

A sketch map of the northern half of the OS map extract

(b) Study Figure 1c and the OS map extract.

Complete the sentences to describe the physical features and land use of the area in Figure 1c.

Use some of the words and numbers in the box below.

(4)

4796 the National Trust bus Woolstaston battlefield
railway 4595 visible earthwork Natural England

Church Stretton has a station at grid reference 456936.

The land near Inwood in grid square 4596 is owned by

The relief of the land in grid square is mostly flat.

The antiquity found in grid square 4294 is a



(c) Suggest why the site of Little Stretton (4491) may have been chosen for a settlement.

(2)

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(Total for Question 1 = 9 marks)

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- 2 (a) Study Figure 2a and the OS map extract.

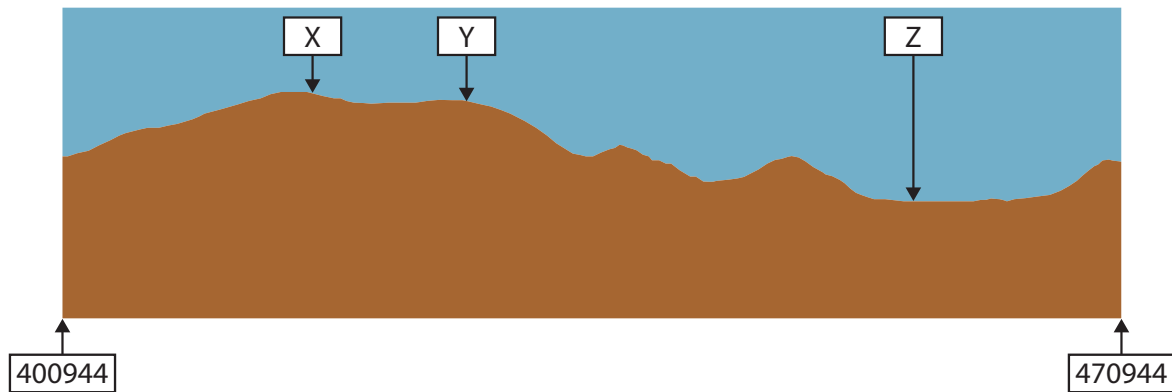


Figure 2a

A cross-section from grid square 400944 to 470944

- (i) Identify the features found at locations X, Y and Z on Figure 2a.

(3)

Location	Feature
X	
Y	
Z	

- (ii) On Figure 2a, mark on the cross section with **V** the location of Carding Mill Valley.

(1)



(b) Figure 2b shows river data collected by a group of students visiting Carding Mill Valley.

Site	Distance from source (m)	Average depth (m)
1	50	0.05
2	200	0.06
3	450	0.08
4	550	0.07
5	1000	0.15
6	1200	0.20
7	1800	0.22
8	2500	0.28
9	3200	0.30
10	3600	0.26

Figure 2b

River data from Carding Mill Valley

(i) Complete the scatter graph (Figure 2c) for sites 5 and 6 using the information in Figure 2b.

(2)

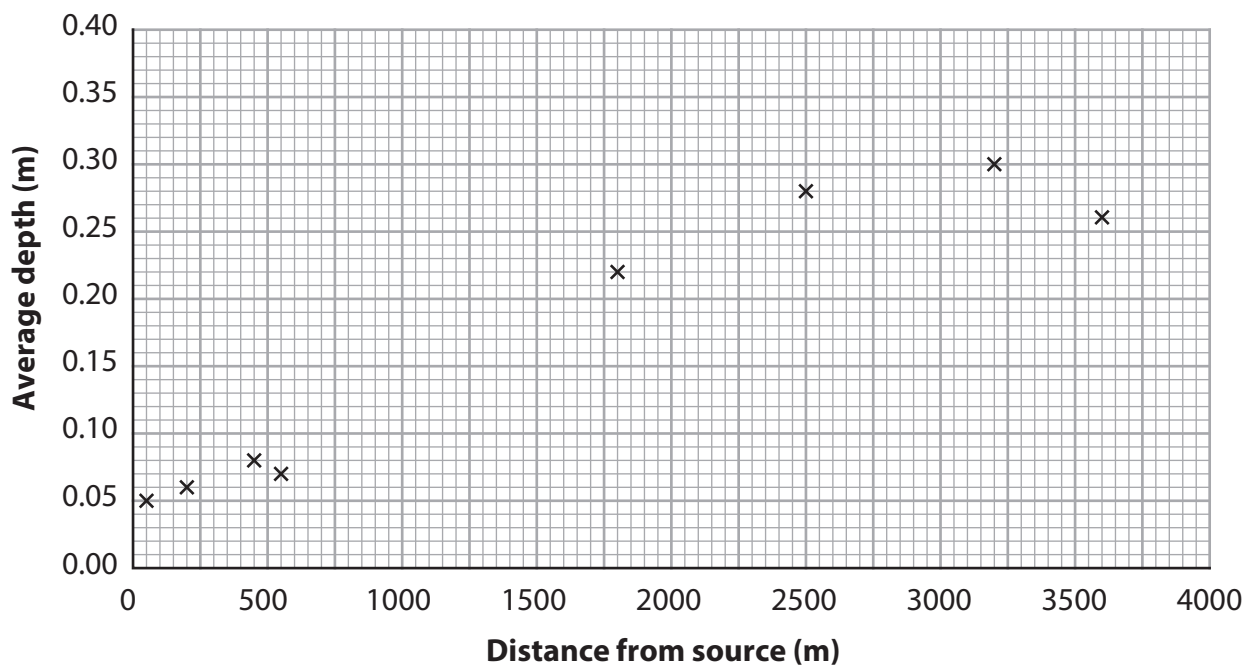


Figure 2c

A scatter graph of average river depth and distance from source



(ii) A scatter graph is the most appropriate way of displaying this type of data because

(1)

- A the scales are the right length
- B you can see the relationship between the two variables
- C it is the easiest graph to draw
- D it allows you to see the differences

(iii) Describe how the average river depth changes with distance from the source.

(3)

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(Total for Question 2 = 10 marks)

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3 (a) Study Figure 3 in the Resource Booklet.

(i) Identify **two** characteristics of this population pyramid.

(2)

1

2

(ii) State **one** problem of using census data as a part of geographical research.

(1)

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(b) Describe how you might use additional data sources (such as the internet) to find information about the people who live in this area of south Shropshire.

(3)

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(Total for Question 3 = 6 marks)

TOTAL FOR SECTION A = 25 MARKS



SECTION B – CHALLENGES FOR THE PLANET

Answer ALL questions in this section.

Spelling, punctuation and grammar will be assessed in 5*(b).

4 (a) Study Figure 4a in the Resource Booklet.

(i) A 3°C increase in global temperatures will create the biggest decrease in crop yields for countries in the

(1)

- A** southern hemisphere
- B** northern hemisphere
- C** polar regions
- D** north west of Europe

(ii) Locations with the biggest predicted increase in crop yields include

(1)

- A** parts of North America
- B** all of South America
- C** Australia
- D** North Africa

(iii) Outline **two** actions of people which contribute to climate change.

(4)

1

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2

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(b) Study Figure 4b.

Volcanic eruptions ‘contributed to global warming pause’, scientists claim



Figure 4b

A newspaper headline linking volcanic eruptions and climate change

(i) Describe how volcanic activity causes climate change.

(3)

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(ii) Complete the sentences to describe the different responses and attitudes people have to climate change.

Use some of the words in the box below.

(5)

gas liquid oil companies nitrous renewable
global local coal sulphur scientists

Nearly all think that the actions of people are partly responsible for climate change.

Carbon dioxide is a that contributes to the greenhouse effect.

Another cause of the greenhouse effect is oxide which absorbs and emits infrared radiation.

The Paris Conference (2015) is an example of a response to climate change, organised by the United Nations.

Other responses to climate change can include governments encouraging increased use of energy.

(Total for Question 4 = 14 marks)

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5 (a) Study Figure 5 in the Resource Booklet.

(i) The overall change in the number of deaths between 1997 and 2008 is (1)

- A a very small decrease each year
- B a decrease that varies each year
- C a small increase each year
- D a large decrease each year

(ii) One possible explanation for the change in the number of road traffic deaths is (1)

- A the bus (BRT) is a more sustainable transport method
- B the roads are longer
- C more people are travelling
- D more people are using the safer buses (BRT)

(iii) Explain **one** limitation of a sustainable urban transport scheme you have studied. (3)

Name of scheme

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Pearson Edexcel GCSE

Geography A

Unit 1: Geographical Skills and Challenges

Paper 1F and 1H

Tuesday 24 May 2016 – Afternoon

Resource Booklet

Paper Reference

**5GA1F/01
5GA1H/01**

Do not return the Resource Booklet with the question paper.

Information

- This Resource Booklet contains photographs, graphs and diagrams needed for use with the Unit 1 Geographical Skills and Challenges examination. This Resource Booklet is for use with both Foundation and Higher tiers.

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PEARSON

SECTION A – GEOGRAPHICAL SKILLS



Figure 1a

A view from the top of Caer Caradoc (4795)



(Source: © 2015 Google terrametrics)

Figure 1b

An aerial view of part of the OS map extract

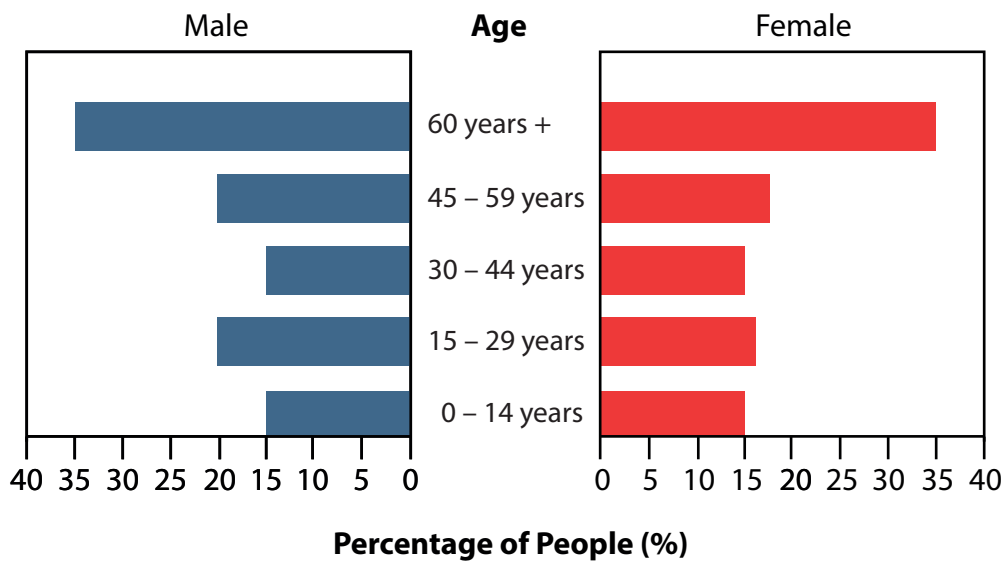


Figure 3

A population pyramid for the main settlements in south Shropshire, 2011

SECTION B – CHALLENGES FOR THE PLANET

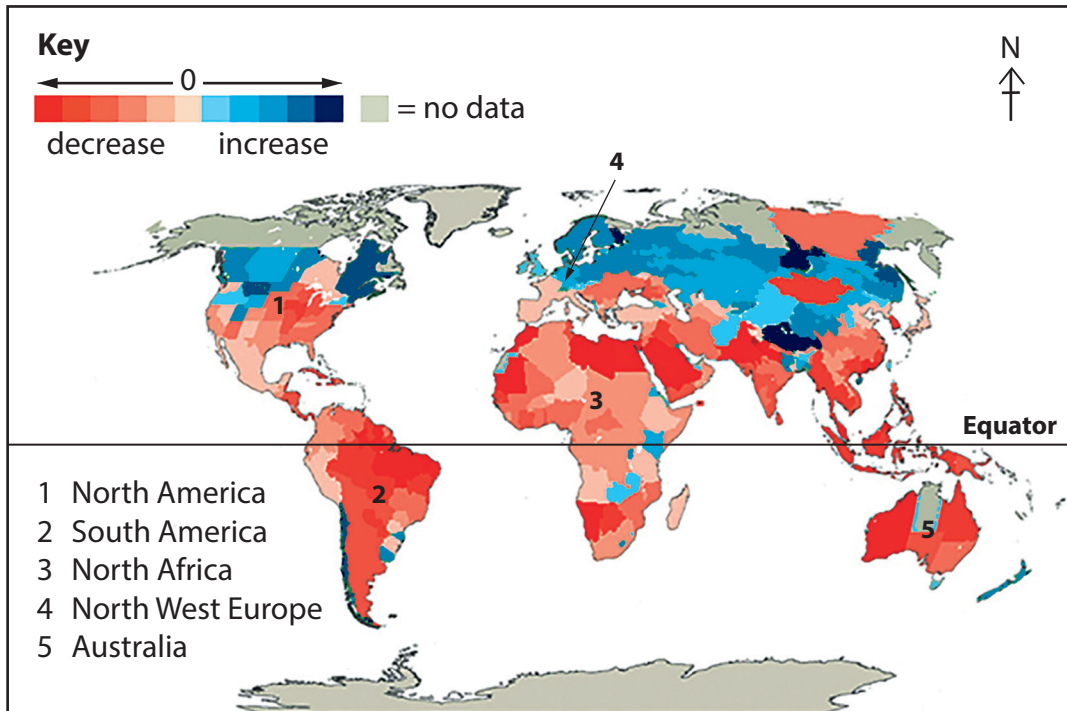
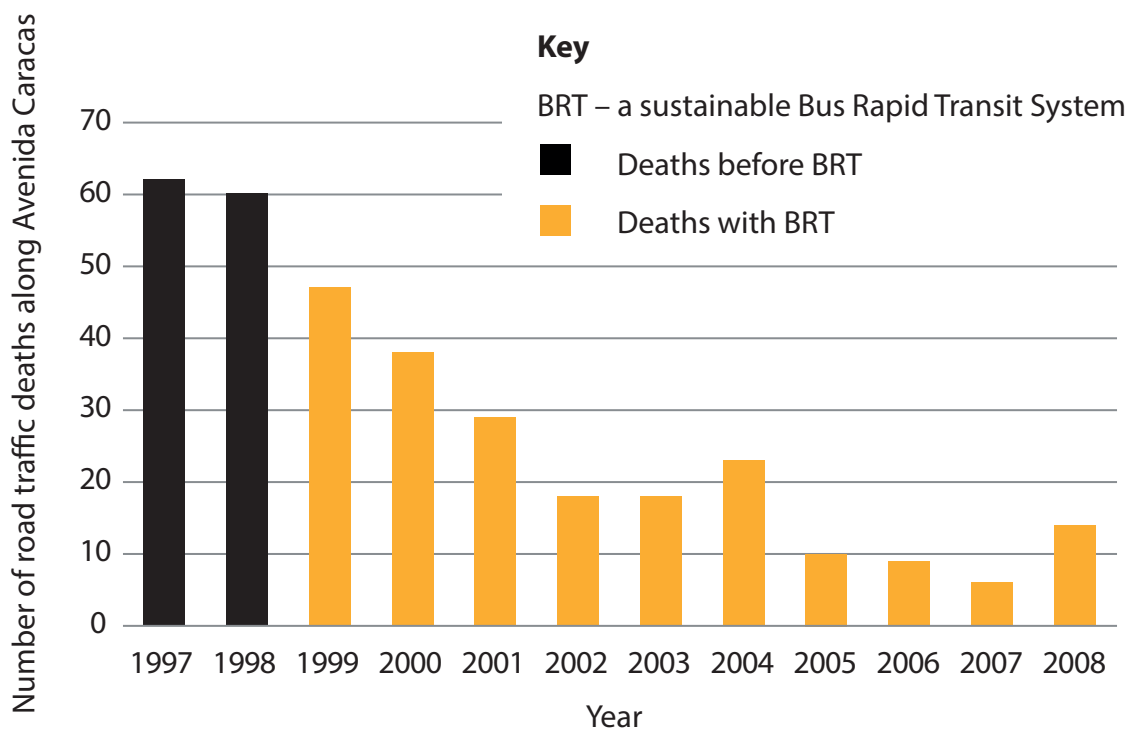


Figure 4a

The predicted impact on crop yields of a 3°C rise in global temperatures



(Source: EMBARQ Analysis, based on data provided by TRANSMILENIO S.A.)

Figure 5

Changes in road traffic deaths along Avenida Caracas – a main road in Bogotá, Colombia, 1997–2008

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ROADS AND PATHS

	Junction number		Not necessarily rights of way
			Motorway (dual carriageway)
			Primary Route (recommended through route)
			Main road
			Road under construction
			Secondary road
			Narrow road with passing places
			Road generally more than 4m wide
			Road generally less than 4m wide
			Path / Other road, drive or track
			Gradient: steeper than 20% (1 in 5), 14% to 20% (1 in 7 to 1 in 5)
			Gates, Road tunnel
			Ferry (passenger), Ferry (vehicle)

RAILWAYS

WATER FEATURES

HEIGHTS

1 metre = 3-2808 feet

Contours are at 10 metres vertical interval

Heights are to the nearest metre above mean sea level

Where two heights are shown the first height is to the base of the triangulation pillar and the second (in brackets) to the highest natural point of the hill

PUBLIC RIGHTS OF WAY

	Footpath
	Bridleway
	Restricted byway
	Byway open to all traffic

The symbols show the defined route so far as the scale of mapping will allow.

The representation on this map of any other road, track or path is no evidence of the existence of a right of way. Not shown on maps of Scotland

Danger Area

Firing and Test Ranges in the area. Danger! Observe warning notices.

BOUNDARIES

	National
	District
	County, Unitary Authority, Metropolitan District or London Borough
	National Park

ROCK FEATURES

	Outcrop
	Cliff
	Scree

OTHER PUBLIC ACCESS

	On-road cycle route
	Traffic-free cycle route
	National Cycle Network number
	Regional Cycle Network number
	National Trail, European Long Distance Path, Long Distance Route, selected Recreational Routes

ANTIQUITIES

	Site of antiquity
	Battlefield (with date)
	Visible earthwork
	Roman
	Non-Roman

TOURIST INFORMATION

	Camp site / caravan site
	Garden
	Golf course or links
	Information centre (all year / seasonal)
	Nature reserve
	Parking, Park and ride (all year / seasonal)
	Picnic site
	Recreation / leisure / sports centre
	Selected places of tourist interest
	Telephone, public / roadside assistance
	Viewpoint
	Visitor centre
	Walks / Trails
	World Heritage site or area
	Youth hostel

LAND FEATURES

	Electricity transmission line (pylons shown at standard spacing)
	Pipe line (arrow indicates direction of flow)
	Buildings
	Important building (selected)
	Bus or coach station
	Current or former place of worship (with tower, with spire, minaret or dome)
	Place of worship
	Glass structure
	Helipoint
	Triangulation pillar
	Mast
	Wind pump, wind turbine
	Windmill with or without sails
	Graticule intersection at 5' intervals
	Cutting, embankment
	Landfill site or slag/spoil heap
	Coniferous wood
	Non-coniferous wood
	Mixed wood
	Orchard
	Park or ornamental ground
	Forestry Commission land
	National Trust (always open / limited access, observe local signs)
	National Trust for Scotland (always open / limited access, observe local signs)

ABBREVIATIONS

Br	Bridge	MS	Milestone
Cemy	Cemetery	Mus	Museum
CG	Cattle grid	P	Post office
CH	Clubhouse	PC	Public convenience (in rural areas)
Fm	Farm	PH	Public house
Ho	House	Sch	School
MP	Milepost	TH	Town Hall, Guildhall or equivalent

