

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
AS GCE
F732/01**

**GENERAL STUDIES
The Scientific Domain**

**FRIDAY 22 MAY 2015: Afternoon
DURATION: 1 hour
plus your additional time allowance
MODIFIED ENLARGED 24pt**

Candidate forename						Candidate surname					
Centre number						Candidate number					

Candidates answer on the Question Paper.

**OCR SUPPLIED MATERIALS:
None**

**OTHER MATERIALS REQUIRED:
Scientific calculator**

A calculator may be used for this paper

READ INSTRUCTIONS OVERLEAF

INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the boxes on the first page. Please write clearly and in capital letters.

Use black ink. HB pencil may be used for graphs and diagrams only.

Answer ALL the questions in Section A and ONE question in Section B.

Read each question carefully. Make sure you know what you have to do before starting your answer.

Write your answer to each question in the space provided. If additional space is required, you should use the lined pages on pages 22–24 of this booklet. The question number(s) must be clearly shown.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part question.

The total number of marks for this paper is 60.

You are advised to divide your time equally between Sections A and B.

THE QUALITY OF YOUR WRITTEN COMMUNICATION WILL BE ASSESSED, INCLUDING CLARITY OF EXPRESSION, STRUCTURE OF ARGUMENTS, PRESENTATION OF IDEAS, GRAMMAR, PUNCTUATION AND SPELLING.

Any blank pages are indicated.

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SECTION A

Answer ALL the questions in this section.

- 1 TABLE 1 below shows the net number of people migrating into and out of regions in England and Wales (June 2011).

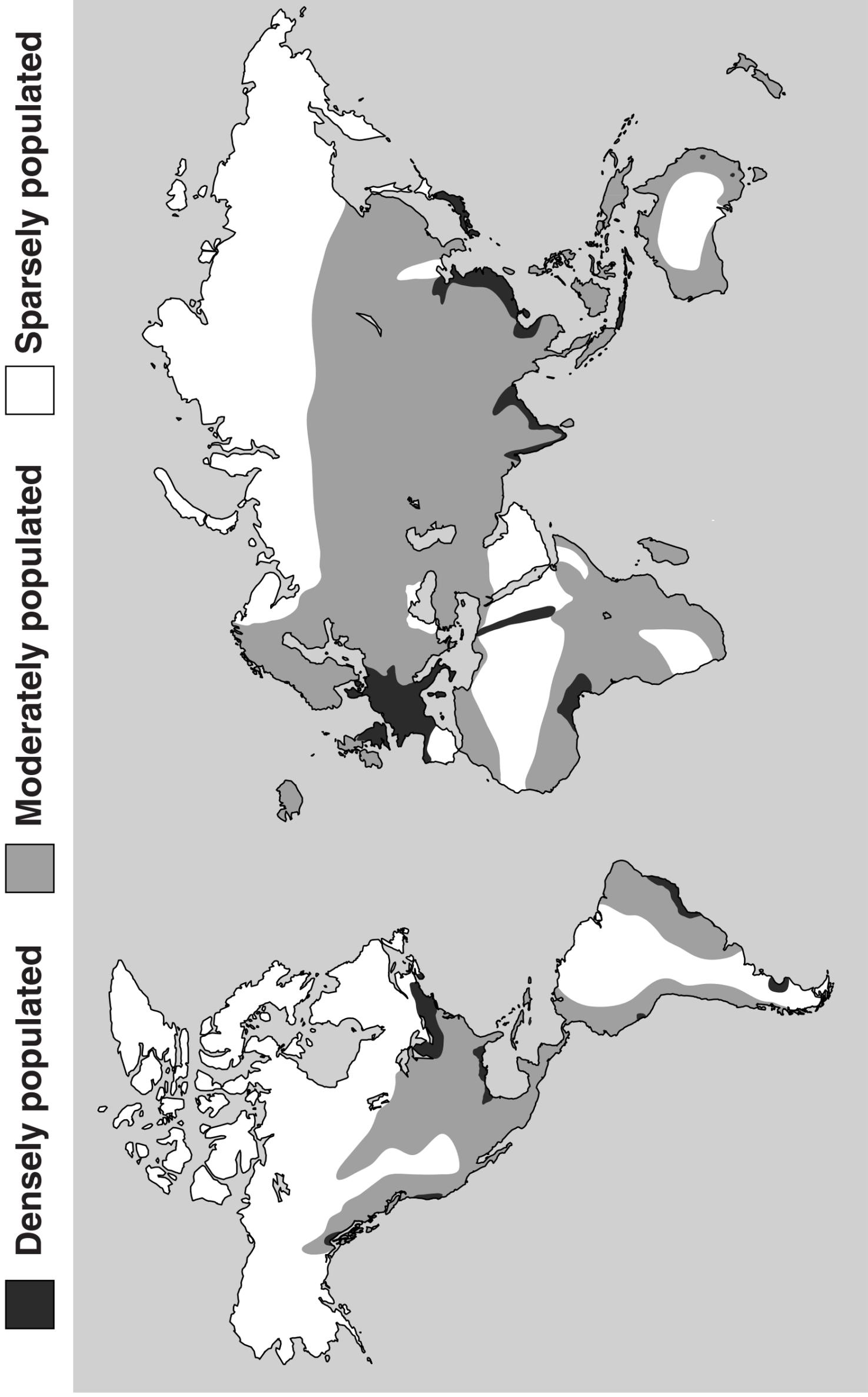
TABLE 1

Region	Number of people migrating	
	out of the region	into the region
North East	2724	
North West	7071	
Yorkshire and Humberside	5676	
East Midlands		3889
West Midlands	7182	
East of England		14620
London	40351	
South East		20684
South West		19216
Wales		2532
TOTALS	63004	60941

(a) (i) Identify TWO trends shown in TABLE 1.

[2]

FIG. 1



- 2 (a) (i) The distance between the goal posts on a football pitch is 8 yards and the height is 8 feet.

Convert BOTH of these measurements to metres using the following:

1 yard = 0.9144 metres

3 feet = 1 yard

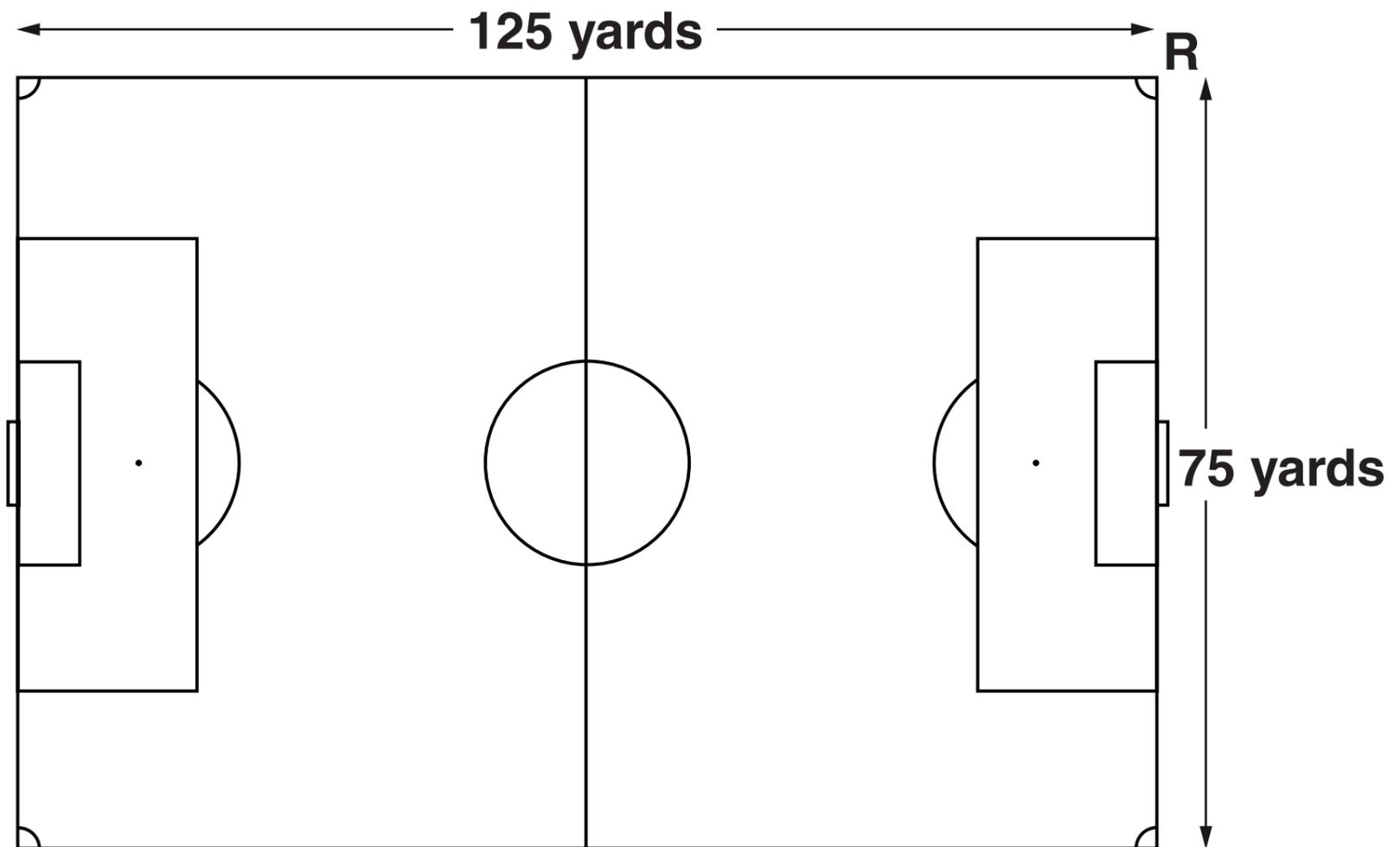
[2]

- (ii) What level of accuracy do you think your answers should be rounded to and why?

[2]

FIG. 2

NOT TO SCALE



He measured the diagonal to be 146 yards. Is the corner, marked R on the diagram, a right angle? Explain your conclusion.

[4]

SECTION B

**Answer ONE question from this section.
Your answer should be in continuous prose.**

Answer in the space provided on pages 16 to 21.

- 3 A data logger is a small, portable electronic device that collects data from sensors. The following are examples of different types of data that could be collected:**

Heat	pH
Movement	Sound
Light	Oxygen levels
Wind speed	Radiation

Outline and discuss the ADVANTAGES to scientists of using data loggers. [30]

- 4 The following needs may arise as the world's population increases:**

management of air pollution

disease control

fertility control.

Consider how the use of different timescales (short, medium and long term) might offer different solutions to ONE of these needs. [30]

5 FIG. 5 Location of National Parks in the UK



Consider the environmental problems that the UK's National Parks face and discuss ways in which EACH of these problems might be managed. [30]

END OF QUESTION PAPER

