**GEOGRAPHY**
**0460/42**

Paper 4  Alternative to Coursework
**May/June 2011**
INSERT

**1 hour 30 minutes**

**READ THESE INSTRUCTIONS FIRST**

This Insert contains Figs 1 and 2, Photograph A and Table 1 for Question 1, and Fig. 4 and Table 2 for Question 2.

The Insert is **not** required by the Examiner.

**[Turn over**

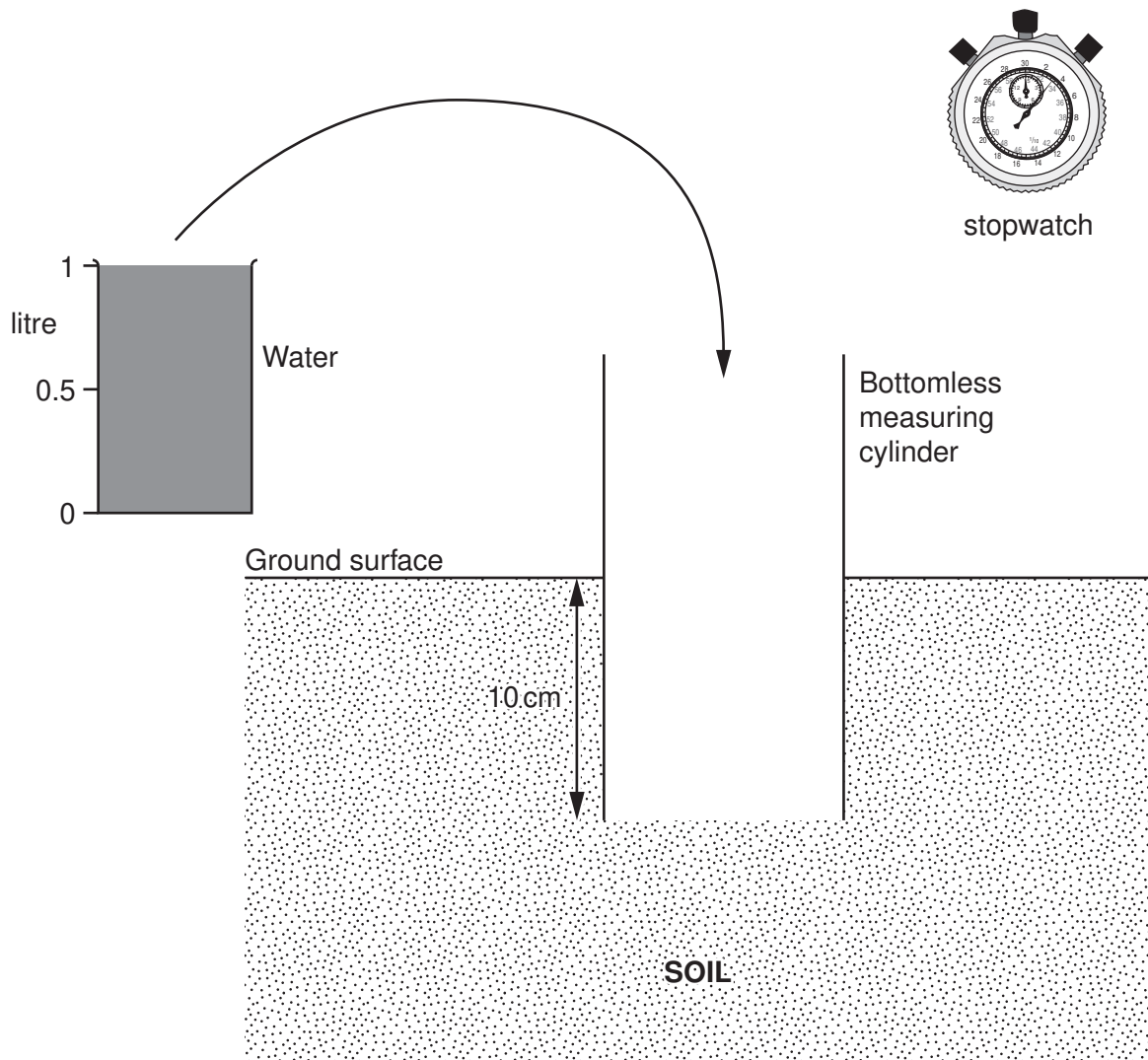## Fig. 1 for Question 1

## The three investigation areas

**Area A** was near a stream and had a road and a footpath leading to it so it was visited by more people than areas B and C. The area contained picnic tables, a car park and public toilets.

**Area B** had been deforested for a coffee plantation, but trees were later replanted in some of the area. The rest had been left without trees. A dirt road went through the area.

**Area C** was an area of natural rainforest which was more inaccessible than areas A and B because there was no path or road leading to it.

## Fig. 2 for Question 1

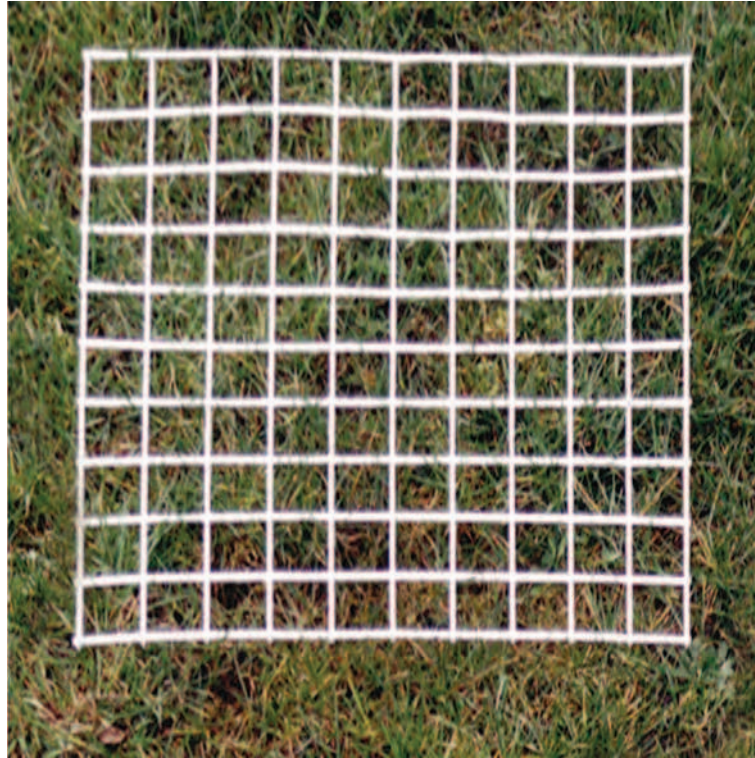## Equipment used to measure infiltration time



stopwatch

1 litre

0.5

0

Water

Ground surface

Bottomless measuring cylinder

10 cm

SOIL

**Photograph A for Question 1**



**Table 1 for Question 1**

**Results of investigation**

| Area A | Site 1 | Site 2 | Site 3 | Site 4 | Site 5 | Average |
|---|---|---|---|---|---|---|
| Infiltration time (seconds) | 36 | 40 | 58 | 50 | 44 | 45.6 |
| Number of vegetation types | 2 | 1 | 2 | 3 | 3 | |
| Percentage of vegetation cover | 36 | 20 | 8 | 38 | 19 | 24.2 |
| Percentage of bare ground | 64 | 80 | 92 | 62 | 81 | 75.8 |
| | | | | | | |
| **Area B** | Site 1 | Site 2 | Site 3 | Site 4 | Site 5 | |
| Infiltration time (seconds) | 25 | 35 | 21 | 48 | 52 | |
| Number of vegetation types | 4 | 2 | 3 | 1 | 1 | |
| Percentage of vegetation cover | 65 | 48 | 70 | 28 | 12 | 44.6 |
| Percentage of bare ground | 35 | 52 | 30 | 72 | 88 | 55.4 |
| | | | | | | |
| **Area C** | Site 1 | Site 2 | Site 3 | Site 4 | Site 5 | |
| Infiltration time (seconds) | 20 | 30 | 25 | 20 | 28 | 24.6 |
| Number of vegetation types | 4 | 3 | 5 | 3 | 3 | |
| Percentage of vegetation cover | 72 | 68 | 80 | 57 | 65 | 68.4 |
| Percentage of bare ground | 28 | 32 | 20 | 43 | 35 | 31.6 |

**Fig. 4 for Question 2**

**Sphere of Influence questionnaire**

I am doing a survey as part of my Geography coursework. Please will you answer the following questions?

1. How far have you travelled to get to the shops today?

2. How did you travel to the shops today?

Thank you

      0460/42/M/J/11      

**Results of Question 1 in Questionnaire**
How far have you travelled to get to the shops today?

**Table 2 for Question 2**

5

## CBD

| Distance travelled (km) | 0.5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Average distance (km) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Number of shoppers | 0 | 2 | 1 | 1 | 2 | 1 | 3 | 1 | 4 | 1 | 0 | 1 | 1 | 0 | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 363/30 = **12.1** |

## Secondary Shopping Centre

| Distance travelled (km) | 0.5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Average distance (km) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Number of shoppers | 0 | 8 | 10 | 6 | 2 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82/30 = **2.7** |

## Neighbourhood (Suburban) Shopping Centre

| Distance travelled (km) | 0.5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Average distance (km) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Number of shoppers | 4 | 17 | 4 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

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