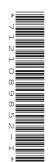


#### GEOGRAPHY

Paper 4 Alternative to Coursework INSERT

0460/41 May/June 2019

1 hour 30 minutes



#### **READ THESE INSTRUCTIONS FIRST**

The Insert contains Figs. 1.1 and 1.4 and Tables 1.2 and 1.3 for Question 1, and Tables 2.1, 2.2 and 2.3 and Fig. 2.2 for Question 2.

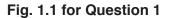
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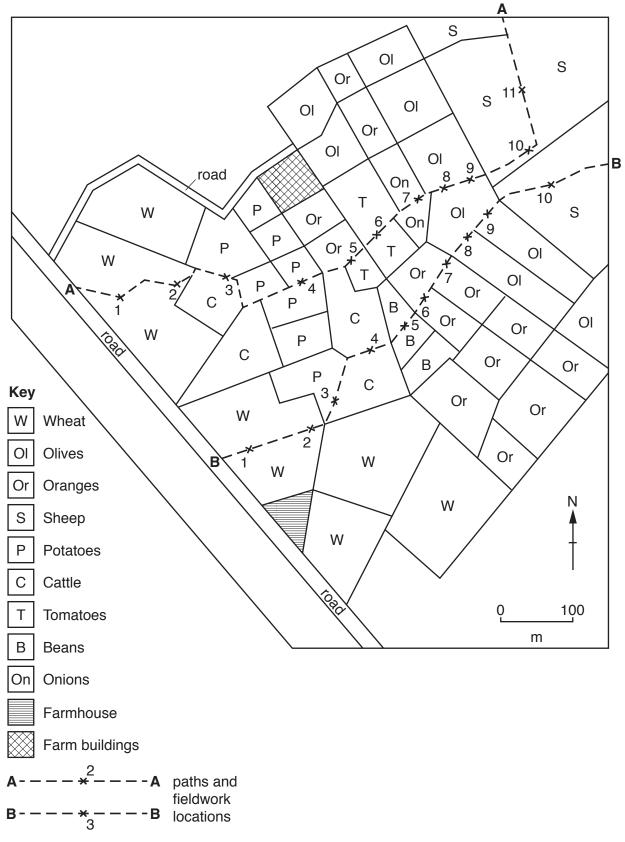
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# Cell (mobile) phone screen



# Table 1.2 for Question 1

### **Results of fieldwork**

### Path A

Fieldwork location	Land use in the field	5		
1	Wheat	57	2	
2	Wheat	59	2	
3	Cattle	66	3	
4	Potatoes	71	2	
5	Oranges	75	4	
6	Tomatoes 78		5	
7	Onions	89	7	
8	Olives	104	9	
9	Olives	Olives 126		
10	Sheep	153 25		
11	Sheep	176	23	

#### Path B

Fieldwork location	Land use in the field	Height of land (m)	Angle of slope (degrees)		
1	Wheat	56	3		
2	Wheat	63	4		
3	Potatoes	66	6		
4	Cattle	70	4		
5	Beans	74	7		
6	Oranges	75	8		
7	Oranges	77	8		
8	Olives	96	12		
9	Olives	119	13		
10	Sheep	142	19		

## Table 1.3 for Question 1

5

## Field size and labour requirements

Land use in the field	Average field size (hectares)	Labour needed (hours per hectare per year)
Sheep	8.3	4
Wheat	7.0	7
Cattle	6.2	6
Olives	3.9	9
Beans	3.3	13
Onions	3.1	17
Tomatoes	2.9	19
Oranges	2.5	13
Potatoes	2.2	16

# Table 2.1 for Question 2

#### **Results at site 5**

Distance across channel (m)	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
Depth of river (m)	0.15	0.25	0.27	0.21	0.16	0.18	0.16	0.13	0.11	0.07	0.05	0.02

### Table 2.2 for Question 2

# Wetted perimeter

Site	Distance downstream from source (km)	Group A wetted perimeter calculation (m)	Group B wetted perimeter measurement (m)
1	0.5	1.75	1.8
2	2.1	3.25	3.6
3	7.4	4.0	3.5
4	11.3	6.3	6.9
5	15	6.9	6.6

### Table 2.3 for Question 2

## Average velocity

Site	Average velocity (m/sec)
1	0.29
2	0.58
3	0.46
4	0.39
5	0.67

#### Fig. 2.2 for Question 2

### Measuring the wetted perimeter

Wetted perimeter can be measured using a rope or tape measure, which should be stretched across the river bed from one bank to the other.



# Measuring the wetted perimeter

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