

# **Cambridge Pre-U**

9768/04
October/November 2020
1 hour 30 minutes



### INFORMATION

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- You may annotate this insert and use the blank spaces for planning. **Do not write your answers** on the insert.

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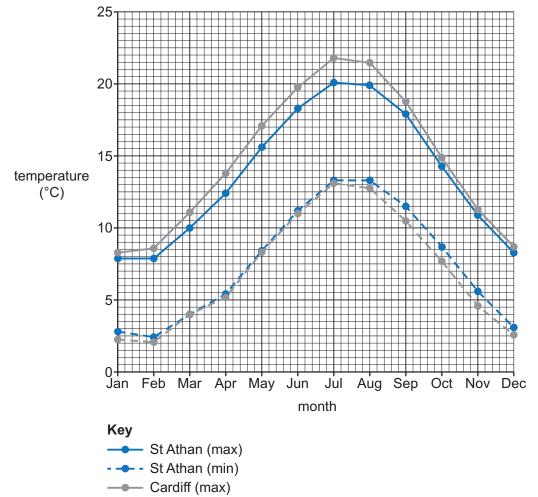
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Average monthly maximum and minimum temperatures for St Athan and Cardiff



- - - Cardiff (min)

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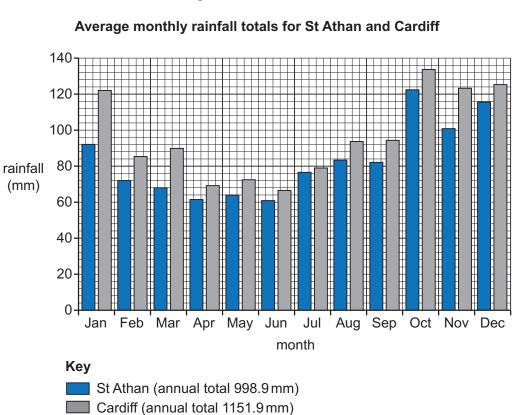


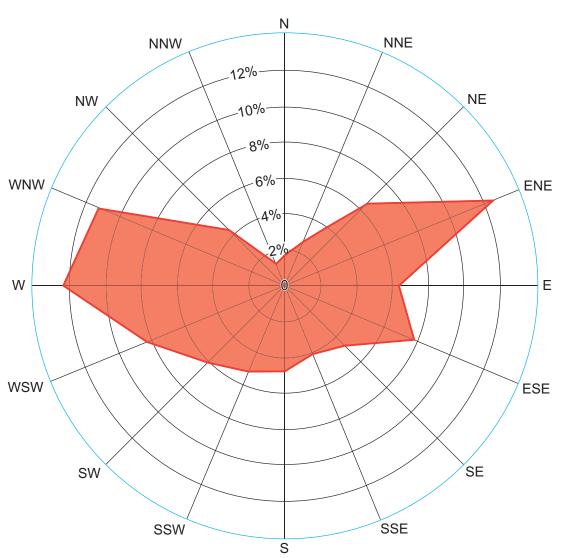
Fig. 1.2 for Question 1

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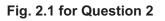


## Fig. 1.3 for Question 1

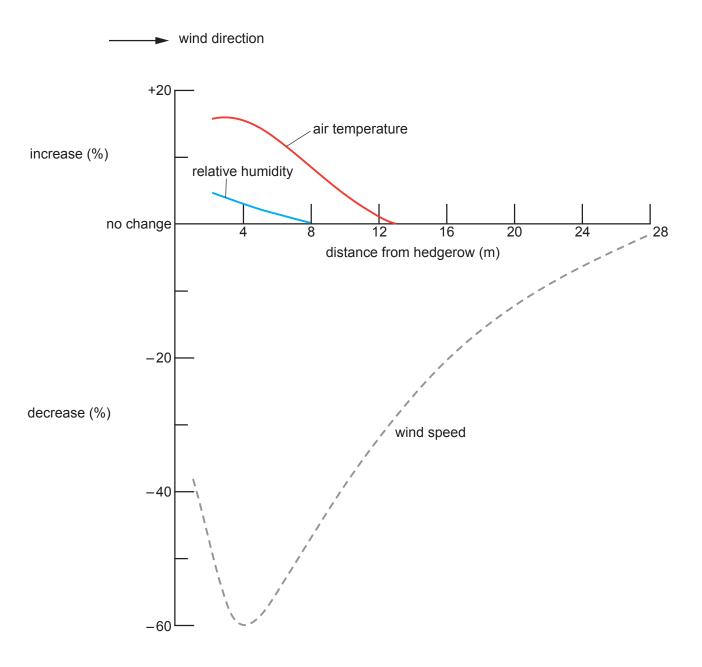
Average wind direction percentages in October for Cardiff from 2001 to 2018



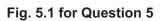
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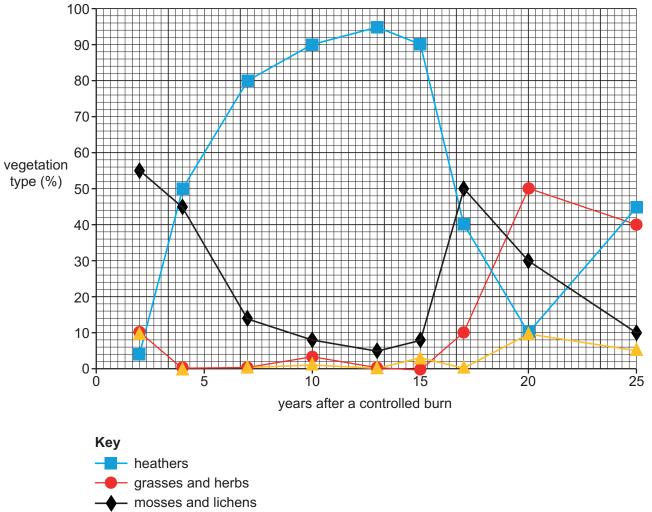
The impact of a one-metre high hedgerow on air temperature, relative humidity and wind speed







Changes in percentage cover of selected vegetation types over time after a controlled burn on a heather moorland ecosystem in the North York Moors National Park







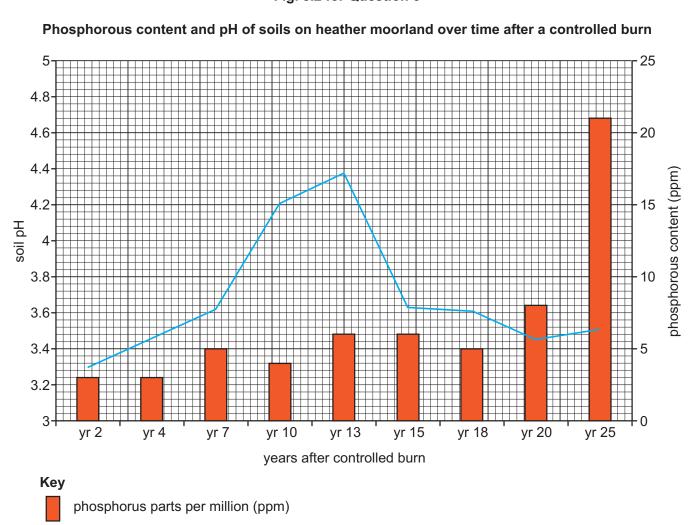


Fig. 5.2 for Question 5

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	-1	С	S	C	٨	T	1
Dams and bridges	×	×	×			×	
Stream flow modification		×	×	×		×	
Water extraction	×					×	
Mining			×				
Deforestation		×	×	×	×	×	
Agriculture	×		×	×	×	×	
Residential/commercial development	×	×	×	×	×	×	
Roads			×				
Point source pollution						×	
Invasive species	×						
Aquaculture							
Climate change	X					×	

# Negative impacts of selected human activities on freshwater ecosystems in the state of Maine, USA

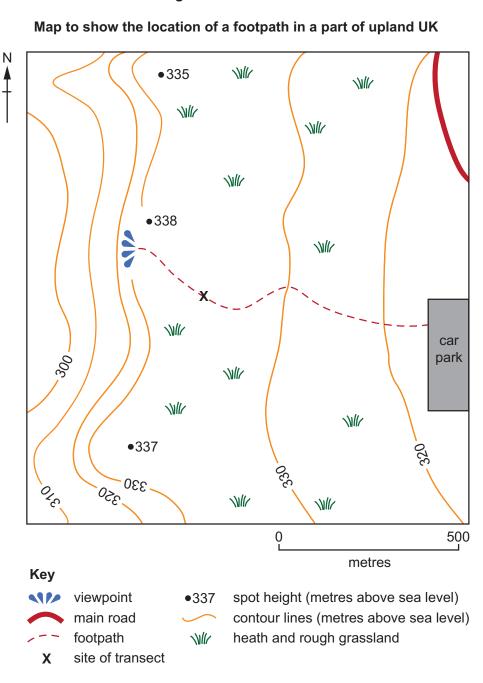
Fig. 6.1 for Question 6

RY	Pesticides						×	×					
IMPACTS ON WATER CHEMISTRY	Salt							×	×				
	Mercury and trace metals				×					×			
	muinimulA				×								
PACTS	PH and alkalinity				×		×						
M	Nutrient enrichment					×	×	×		×		×	
	əɓessed pəpədwı	×											
	Temperature change	×	×	×		×	×	×		×			×
PACTS	Vegetation reduction					×	×	×					
PHYSICAL IMPACTS	Coarse woody debris		×			×	×	×					
PHYSI	Sediment quality and quantity	×	×		×	×	×	×	×				
	Channel morphology modification	×	×			×		×					
	Habitat loss/degradation	×		×			×	×			×		×
	HUMAN ACTIVITIES	Dams and bridges	Stream flow modification	Water extraction	Mining	Deforestation	Agriculture	Residential/commercial development	Roads	Point source pollution	Invasive species	Aquaculture	Climate change

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Key X = negative impact







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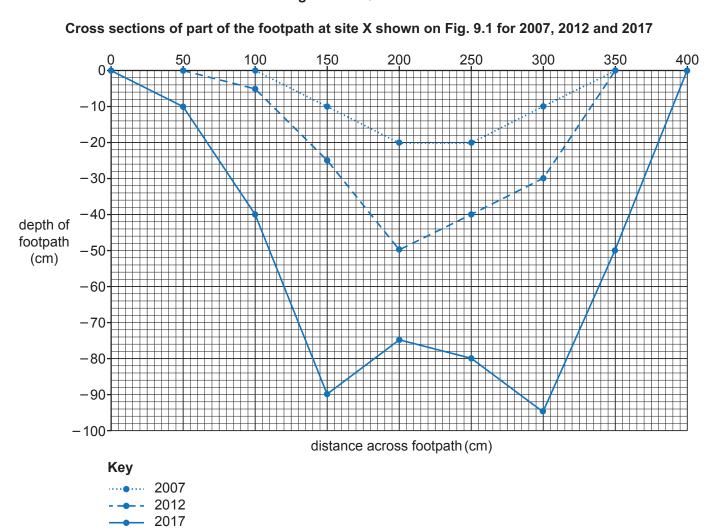


Fig. 9.2 for Question 9

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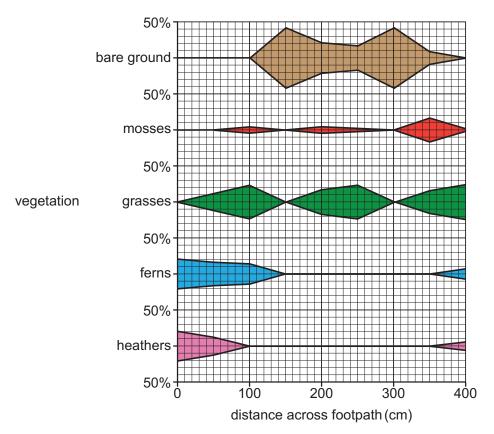


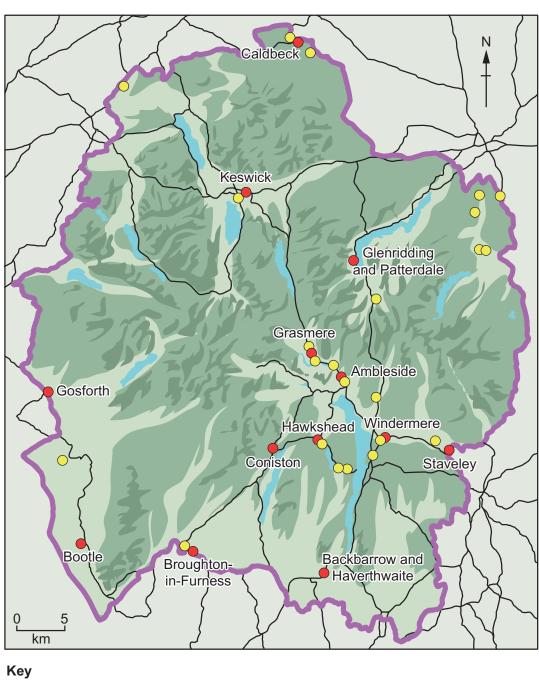
Fig. 9.3 for Question 9

Kite diagram of vegetation across the footpath at site X, 2017



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Rural service centres and conservation areas in the Lake District National Park, England

Fig. 10.1 for Question 10

- rural service centre
- conservation area
- ~∽ roads
- 🥭 lakes
- Lake District National Park boundary

