Study **Figure 1**, a photograph of a housing estate in north east England, and **Figure 2**, a photograph of a corrie and a stream in the Lake District National Park.

Figure 1

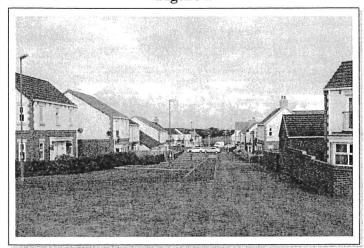
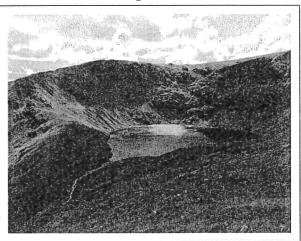


Figure 2



[Total 6 marks]

1.1	Suggest one question that could form the basis of a human geography enquiry in the environment
	shown in Figure 1 .
•	Does area x have sufficient amenities to meet
	the needs of the local population?
	· · · · · · · · · · · · · · · · · · ·
1.2	Outline one primary data collection technique that could be used in the environment shown in Figure 1 to help answer this question.
	Complete a shops and business survey, locating
	Hem on a base map -> identify the different
	hypes of goods a services as well, [2]
1.3	Outline one primary data collection technique that could be used in the environment shown in Figure 2 .
	masure changing gradient, using ranging
¥	pars & a clinameter
9	[2]
1.4	Suggest one possible risk of collecting data in the environment shown in Figure 2.
	Looks isciated, SUIG someone fells, difficult to
	get help.
	[1]

2	As part of a fieldwork enquiry, a study a footpath during a 10-minute period ruler. She repeated this at ten differen	lent cou . She th nt point	then measured the width of the footpath using a metre ts on the footpath. The results are shown in Figure 3 .
	Tuner. One repe		Figure 3
2.1	Complete the graph in Figure 3 by adding the data for the final site, which was used by 16 walkers and measured 350 cm wide.	[1]	600 × × × × × × × × × × × × × × × × × ×
2.2	Draw a line of best fit on the graph in Figure 3 .	[1]	(m) 500 yaqu 400 yaqu 200 x x x x x x x x x x x x x x x x x x
2.3	Using Figure 3 , predict the width o stretch of footpath used by 26 walks	ra ers.	100
	450 cm	[1]	0 4 8 12 16 20 24 28 32 Number of walkers
2.4	might lead to inaccuracies in the day USE CF Metre Snck 1855 Mexika e So Suggest one way in which the data Repeat methods of	collecte	ethod used to measure the width of the footpath that ected. Taker man kape measure — Junch to be as accurate. [2] ed on the number of walkers could be made more reliable. If walkers will vary at a country and prove spring , likely to be more! [2]
	2.7 Give one source of secondary da	ta that y	the impact of walkers on footpath erosion using the LECTS J. V. Le. Marche
	(car park enry	<u>, </u>	[1] [Total 9 marks

	A group of students sent a questionnaire to a random se out how many houses had solar panels. The results for	Figure 4
3.1	Complete Figure 4 to show that 17% of the houses in district F have solar panels. [1]	Key
3.2	Complete Figure 4 to show that 43% of the houses in district T have solar panels. [1]	21-30% 31-40% 41-50% B C
3.3	What is the percentage range of houses in district E that have solar panels?	G III
	21 - 301.	O P Q R
3.4	Describe the pattern in the use of solar panels in Suninsky shown in Figure 4 .	0 1 km
	More sday parnels in	The extractive field and that a series were to the extractive and a series of the extractive and the extract
	14 a North range from 0 =	30:1 The most
	color navols were in the Sa	in east with material
	301, wherease the west	had a mixture, ranging
	6cm 11-50%	
		[3]
	Evaluate the data presentation technique used in Figu	ure 4.
3.5	(1) good to Strue Souther Can	rext
	() CLEUN USE CL WILLIAM	AN. K. L. Col and land and American
	3) Difficult to sport from	nds, have to keep locking
	at the key	
	(A) could be variations in	MMM an ara, for examp
	IN Funch is quite a b	ng area[
3.	6 Suggest one other way in which the students could l	have presented the data.
3.	Coccolem mara	
	Ly the way were a second	
		1
		[Total 11 mari

4

4	A student wanted to investigate how people's food shover time. As part of his fieldwork enquiry, he colle organic food that people buy. The data was collected survey in a village with an organic farm shop. The results of the collected survey in a village with an organic farm shop.	cted data on the amount of d through a door-to-door
4.1	Complete the graph to show that nine	Figure 5
	households in the survey buy 20-29% of their weekly shop from organic sources.	80-89
4.2	What is the modal class of the data shown in Figure 5? O - 9	70-79
4.3	Describe the results shown in Figure 5. MCSV people purchase VESS Man 301, Cf. Herr	0-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		Number of households
	weekly shop of the 36	The state of the s
	hauseholds survey 25 purc	hased 1855 than 301.
	agamic, any 2 households	Purchased were man 601
4.4	Suggest one reason why the data collected may not	be representative of the UK as a whole.
	The surey was carried out	in avillage outh a
	farm shop, morny people	live in bouns, comes
	with different shops availa	ne le Mem [2]
4.5	Outline one limitation of the data collection technic	que used in this enquiry.
	People sureyed will have	
	so many well likely have	over-estimated, so
,	resurs may not be accurat	<u>[2]</u>
4.6	Suggest one other source of primary data that may	
	· ·	who were me
	form shop and ask them	
	Shapping houbits have change	d lare people purchasing
	more digenic good.	[2] [Total 11 marks]

A student wanted to investigate how wave characteristics affect the cross-profile of a beach.

Figure 6 shows the method she used to find the cross-profile of the beach. She measured the profile at three points along the beach. The results are shown in Figure 7.

Figure 6 Figure 7 15 Angle between ranging poles, measured with a clinometer Height (m) Ranging poles -5m placed at 5m intervals Beach Sea Measurements started at low tide mark and repeated to top of beach 20 30 50 5.1 Describe two possible sources of Distance from low water mark (m) inaccuracy in the method used. Source 1: MISSING changes in gradient between 5m Loterials Source 2: Decole - not had no ranging polls straight [2] 5.2 Suggest one way in which the reliability of the data could be improved. Changing intervals, making them vimable, depending on Shape of beach [2] 5.3 Outline **one** potential risk of collecting data in a coastal environment. haves, there and be a freak wave which would be asist if people were measuring close to the sea (risk of drawning) 5:4 Suggest one other source of primary data that the student could collect to help her answer the research question. Card use quadrats to tack at beach sections

a how it changes up the beach

[Total 7 marks]

travel 10 metres downstream. The results are shown in Figure 8.		ure 8
Suggest one appropriate item that could be used as the float.	rigo	
Give two reasons for your answer.	Sample	Time (s)
Item: Cork - painted	1 · · · · · · · · · · · · · · · · · · ·	- 315
	2	- 255
Reason 1: light o ficals	3	278
	4	310
	5	947
	6	302
Reason 2: Luig	7	279
Reason 2	8	297
Nahral + dees not impact	pe else Elpan I consequent destributions and the Oka element subseque N	 See and the first production of the elements of the first product of the elements of the elements
enu coment,		[2]
Which sample in the data is an anomaly?		
5.2 Willest Sample in the 5		[1]
		Lil
Suggest one possible reason for the anomaly.		
Suggest one possible reason for the anomaly.	CARCLE O	a transec
Eald have mer an and	Market Marin Commy	
	1	
by a red unch word slaw it	dan	
by a red unan word slav it	dan,	
by a reac unch would slaw it	-daun,	[2]
	-daun,	[2]
6.4 Excluding the anomaly, calculate the median time taken for th	ne float to travel 1	[2] [0 m.
6.4 Excluding the anomaly, calculate the median time taken for th	ne float to travel 1	[2)
6.4 Excluding the anomaly, calculate the median time taken for th	ne float to travel 1	[2)
6.4 Excluding the anomaly, calculate the median time taken for the 315, 258, 278, 310, 302, 256, 278, 279, 297, 302	ne float to travel 1	[2)
6.4 Excluding the anomaly, calculate the median time taken for the 315, 258, 278, 310, 302, 255, 278, 279, 297, 302	ne float to travel 1	[2] 10 m.
6.4 Excluding the anomaly, calculate the median time taken for the 315, 258, 278, 310, 302, 2579, 259, 302, 302, 302, 302, 302, 302, 302, 302	ne float to travel 1	[2] 10 m. 15
6.4 Excluding the anomaly, calculate the median time taken for the 315, 258, 278, 310, 302, 379 255, 278, 279, 297, 302 Median = 297, 8	ne float to travel 1	[2] 0 m. 15 0 m.
6.4 Excluding the anomaly, calculate the median time taken for the 315, 258, 278, 310, 302, 379 255, 278, 279, 297, 302 Median = 297, 8	ne float to travel 1	[2] 0 m. 15 0 m.
6.4 Excluding the anomaly, calculate the median time taken for the 315, 258, 278, 310, 302, 259, 279, 297, 302, Median = 297, s 6.5 Excluding the anomaly, calculate the mean time taken for the 315 + 255 + 278 + 310 + 302	e float to travel 1	[2) 10 m. 15 0 m. 297 =
6.4 Excluding the anomaly, calculate the median time taken for the 315, 258, 278, 310, 302, 259, 279, 297, 302, Median = 297, s 6.5 Excluding the anomaly, calculate the mean time taken for the 315 + 255 + 278 + 310 + 302	ne float to travel 1	[2) 10 m. 15 0 m. 297 =
6.4 Excluding the anomaly, calculate the median time taken for the 315, 258, 278, 310, 302, 3740, 303, 304, 304, 304, 304, 304, 304, 3	e float to travel 1	[2] 0 m. 15 0 m. 297 =
6.4 Excluding the anomaly, calculate the median time taken for the 315, 258, 278, 310, 302, 259, 279, 297, 302, Median = 297, 8 6.5 Excluding the anomaly, calculate the mean time taken for the 315 + 255 + 278 + 310 + 302	e float to travel 1	[2) 10 m. 15 0 m. 297 =
6.4 Excluding the anomaly, calculate the median time taken for the 315, 258, 278, 310, 302, 379, 302, 302, 379, 302, 302, 302, 302, 302, 302, 302, 302	e float to travel 1	[2] 0 m. 15 0 m. 297 =
6.4 Excluding the anomaly, calculate the median time taken for the 315, 258, 278, 310, 302, 2574 Median = 297, 8 6.5 Excluding the anomaly, calculate the mean time taken for the 315 + 255 + 278 + 310 + 302 Mean = 8	e float to travel 1 1 2 2 3 1 0 3 1 0 4 2 7 9 4 4 be presented.	[2] 10 m. 15 0 m. 297 =
6.4 Excluding the anomaly, calculate the median time taken for the 315, 253, 278, 310, 302, 379, 297, 302. Median = 297, 8 6.5 Excluding the anomaly, calculate the mean time taken for the 315+255+278+310+302. Mean = 8 6.6 Suggest one way in which the data shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be seen to some an anomaly shown in Figure 8 could be shown in Figure 8 could	e float to travel 1 2.310, 3 float to travel 10 + 276 +	[2) 10 m. 15 [2) 0 m. 297 =
6.4 Excluding the anomaly, calculate the median time taken for the 315, 253, 278, 310, 302, 379, 297, 302. Median = 297, 8 6.5 Excluding the anomaly, calculate the mean time taken for the 315 + 255 + 278 + 310 + 302. Mean = 8 6.6 Suggest one way in which the data shown in Figure 8 could be seen to show the same and t	e float to travel 1 2.310, 3 float to travel 10 + 276 +	[2) 10 m. 15 [2) 0 m. 297 =
6.4 Excluding the anomaly, calculate the median time taken for the 315, 258, 278, 310, 302, 379, 302, 379, 302, 379, 302, 379, 302, 302, 379, 302, 302, 379, 302, 302, 302, 302, 302, 302, 302, 302	e float to travel 1 2.310, 3 float to travel 10 + 276 +	[2) 10 m. 15 [2) 0 m. 297 =