AQA - Data Collection – GCSE Statistics – 2019

1.	June/2019/Paper_1F/No.1 What is the name for data	that has been coll	ected but not sorted	in any way?	
	Circle your answer.			[1 m	ark]
	raw	ordinal	discrete	grouped	
2.	June/2019/Paper_1F/No.2 Which of these is least lile investigation?	(ely to be a constra	aint that may be face	d when designing ar	1
	Circle your answer.			[1 m	nark]
	time	cost	privacy	temperature	

3.

Tracking	g is a process us	sed to extract oil or ga	s from the ground.		
Some p	lans are made to	use fracking near th	e town where Ame	lia lives.	
	is strongly oppos ts in her town.	sed to it and decides t	o get opinions abo	ut it from	
Amelia	decides to ask e	veryone in the town t	heir opinion.		
Circle th	ne name for this	data collection metho	d.	[1 mar	k]
	sample	observation	census	experiment	
Why mi	ght it not be a go	ood idea to try to ask	everyone in the tov	vn? [1 ma r	k]
Write a	closed question	nnaire to give to reside , with a response sec from the fracking site	tion, that Amelia co	ould use to find out the	_ _ s]
Write a	closed question	, with a response sec	tion, that Amelia co		

(1)	Write an open question that Amelia could use to find out the age of a resident.	[1 mark]
(ii)	Was it a good idea to use an open question about age?	
	Tick (\checkmark) one box.	
	Yes No	
	Give a reason for your answer.	[1 mark]
	Another question Amelia writes is, 'Do you agree that fracking is dangerous and damages the countryside?'	
	Give two criticisms of this question.	10 markal
	Criticism 1	[2 marks]
	Criticism 2	

-					
4	l	/ 1 040	/Paper	411	/NI_ 1
4	II IM 🗗 /	71114	/Paner		/ 131/7 1
т	Julici	2010	'i abci	 11/	110.1

Amol wants to take a systematic sample of size 50 from the 1000 students in his school.

He numbers all the students from 0001 to 1000

He chooses the student numbered 0014 as his random starting point.

Circle the number corresponding to the next student who will be in his sample.

[1 mark]

0015 0020 0034 0064

5. June/2019/Paper_1H/No.3

Pierre is investigating how the mileage of a second-hand car affects the car's value.

What type of variable is the make of a car in Pierre's investigation? Circle your answer.

[1 mark]

response extraneous independent dependent

6. June/2019/Paper_2F/No.1

For which data source would you have the greatest level of control of variables?

Circle your answer.

[1 mark]

observation field laboratory natural experiment experiment experiment

7	7	lune	/2019	/Paper	2F	/No 3
•	•	Julie	/ 2013	/rapei	Z1/	1110.3

Amir is comparing the taste of sprouts from two farms.

He cooks a sample from each farm and asks volunteers to score the taste out of 10

(a) Which of these variables is the explanatory variable?

Circle your answer.

[1 mark]

the score given to the taste

how well the sample was cooked

which farm the sprouts were from

the gender of the volunteer

(b) Which of these variables is a possible extraneous variable?
Circle your answer.

[1 mark]

the score given to the taste

how well the sample was cooked

which farm the sprouts were from

the name of the farmer

8. June/2019/Paper_2H/No.2

	some statements comp stionnaire.	aring the use of clos	sed questions and op	en questions
Α	Closed questions are	generally quicker to	answer than open qu	uestions.
В	The responses to clos	ed questions are ea	sier to analyse.	
С	Closed questions allow than open questions.	w respondents to giv	e their true feelings (more easily
D	The response choices meaning of the question	•	estions can help clar	ify the
Circle the	letter for the statement	that is false .		[1 mark
	Α	В	С	D

	Paper_2H/No.12 ax, Natalie and Lottie work on a cruise ship.	
	hey want to ask passengers staying in standard class accommodation what they think bout their cabins.	(
	here are 900 passengers in total on the cruise ship, of which 460 are staying in andard cabins.	
	ax, Natalie and Lottie each decide to collect information from a sample of passengers.	
М	ax says that the population for the investigation is all passengers on the cruise ship.	
E	xplain why he is wrong. [1 mark	k]
_		_
	atalie's calculator has a button marked Ran#. his button generates a random number between 0 and 1	
SI	he uses her calculator to select 50 passengers from the population using the following ethod.	9
	Assign every passenger in the population a number.	
	Generate random numbers from a calculator by typing Ran# × 100 Select the passenger that matches the answer.	
N	atalie's method contains some errors.	
	orrect Natalie's method to show how she can use her Ran# button to choose a undom sample from the population.	
	[3 marks	s]
_		
_		
_		_
		_

How would	you rate the value	for money a	nd the quality of sta	andard class ca
Excellent [□ Very go	ood 🗆	Good □	Fair □