

Write your name here

Surname	Other names
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In the style of: **Edexcel GCSE**

Centre Number

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Candidate Number

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Mathematics A

Questionnaires

Higher Tier

Past Paper Style Questions Arranged by Topic	Paper Reference 1MA0/1H
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You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser. Tracing paper may be used.

Total Marks

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Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- **Calculators must not be used.**



Information

- The total mark for this paper is 100
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed.

Advice

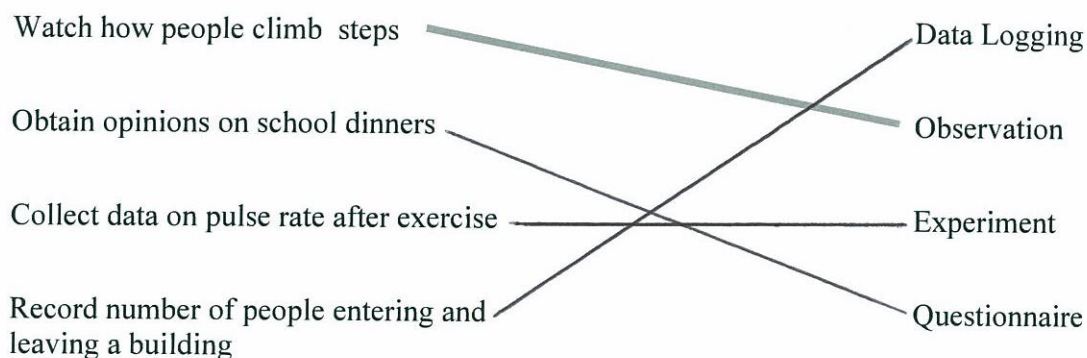
- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►



(a) Match the data collection methods to **the** situations.

The first one is done for you.



(2)

Design a questionnaire to find out the age and gender of some people.

Write **two** questions. You should include some response boxes.

. Question 1

Are you male or female ?

☐ ☐
Male Female

Question 2

Which of the following age groups do you belong to ?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Under 16 16-17 18-21 22-29 30-39 40-49 50-64 65-80 Over 80

(4)



2. Peter wants to find out how much people spend using their mobile phone.

He uses this question on a questionnaire.

How much do you spend on your lunch?		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
£1-£5	£5-£10	£10-£15

- (a) Write down **two** things that are wrong with this question.

- 1 No time interval over which the question is to be applied, such as 'per day' or 'per week'.
- 2 No options included for extremes/outliers such as '£0' or 'more than £15'. Also, overlapping class intervals. (2)

- (b) Design a better question for his questionnaire to find out how much people spend on their lunch.

You should include some response boxes.

How much do you spend on your lunch per week?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
£0	£1-£5	£6-£10	£11-£15	£16-£25	£26-£30	Over £30

(2)

(Total 4 marks)



3. Ron is going to take a survey of the games played by students.

He wants to design a questionnaire.

(a) Design a suitable question that he could use to find out what types of game students play.

What types of games are you most likely to take part in in a typical month?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sporting	Video	Board	Card games	Other

(2)

Ron put the question below on his questionnaire.

'How many games have you played?'

☐
A few

☐
A lot

(b) Design a better question.

You should include some response boxes.

How many times would you estimate you've participated in some form of gaming activity in the last week?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	1-2	3-4	5-9	10-20	More than 20

(2)

(Total 4 marks)



4. Georgina wants to find out how often adults go to the library. She uses this question on a questionnaire.

"How many times do you go to the library?"

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Not very often	Sometimes	A lot

- (a) Write down **two** things wrong with this question.

- 1 No time interval over which question is to be applied such as 'per week' or 'per month'.
- 2 The options should be quantitative or numeric and not qualitative or descriptive options which are equivocal and open to subjective interpretation. (2)

- (b) Design a better question for her questionnaire to find out how often adults go to the library.

You should include some response boxes.

How many times on average would you estimate you visit a library over a 3-month period?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Never	1-2	3-4	5-10	11-20	More than 20

(2)

(Total 4 marks)



5. Will wants to find out how many tunes people download.

He uses this question on a questionnaire.

How many tunes do you download?

☐

1 – 5

☐

5 – 10

☐

10 – 15

☐

15 – 20

Write down **two** different things wrong with this question.

- 1 Overlapping class intervals and no options for outliers such as 'zero' downloads or 'more than 20'.
- 2 No time interval over which question is to be applied such as 'per week' or 'per month'.

(Total 2 marks)



6. Sophie wants to find out the amount of time people listen to music. She will use a questionnaire.

- (a) Design a suitable question for Sophie to use in her questionnaire.
You must include some response boxes.

How many hours would you estimate that you spend listening to music per week?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0	1-2	3-5	6-10	11-15	16-21	22-30	More than 30

(2)

Sophie asks the people at a concert to complete her questionnaire. This may **not** be a suitable sample.

- (b) Give a reason why.

Such a sample would not be proportionally representative of the population as a whole in terms of the various strata of age groups and predisposed musical biases. (1)

(Total 3 marks)



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