Edexcel GCSE
Mathematics (Linear) – 1MA0

QUESTIONNAIRE

Materials required for examination
Ruler graduated in centimetres and
millimetres, protractor, compasses,
pen, HB pencil, eraser.
Tracing paper may be used.

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 may be used.

Information

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 – you should take particular care on these questions with your spelling, punctuation
and grammar, as well as the clarity of expression.

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.

Notes:

1. Make sure that your questions include a TIME FRAME; e.g. Day, Week, Month...

2. Always have an option for ZERO or NONE

3. DO NOT have OVERLAPPING INTERVALS

4. Include at least 4 tick boxes

5. Your last Interval should be: More than .....

1. Sam wants to find out the types of film people like best.

He is going to ask whether they like comedy films or action films or science fiction films or musicals best.

(a) Design a suitable table for a data collection sheet he could use to collect this information.

Sam collects his data by asking 10 students in his class at school.
This might **not** be a good way to find out the types of film people like best.

(b) Give **one** reason why.

....

....

(3 marks)

2. Alison wants to find out how much time people spend reading books.
She is going to use a questionnaire.

Design a suitable question for Alison to use in her questionnaire.

(2 marks)

3. Pradeep wants to find out how much time people spend playing sport.
He uses this question on a questionnaire.

> How much time do you spend playing sport?
>
> ☐   ☐   ☐
> 0 – 1 hours   1 – 2 hours   3 – 4 hours

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

1..

....

2..

....

(2)

(b) Design a better question for Pradeep's questionnaire to find out how much time people spend playing sport.

(2)

(4 marks)

_____

4. Guy wants to find out how much time people spend watching television.
He will design a questionnaire.
Design a suitable question for Guy's questionnaire.

(2 marks)

_____

5. Paula wants to find out how much money people spend buying CDs.

She uses this question on a questionnaire.

How much money do you spend buying CDs?

☐ £10 – £30   ☐ £30 – £50   ☐ £50 – £70   ☐ more than £70

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

1 ....

....

2 ....

....

(2)

Paula asks 100 people in a CD store to do her questionnaire.

(b) Her sample is biased.
Explain why.

....

....

(1)

(3 marks)

6. The manager of a department store has made some changes.

She wants to find out what people think of these changes.

She uses this question on a questionnaire.

"What do you think of the changes in the store?"

Excellent	Very good	Good

(a) Write down what is wrong about this question.

....

....

....

(1)

This is another question on the questionnaire.

"How much money do you normally spend in the store?"

A lot	Not much

(b) Write down one thing that is wrong with this question.

....

....

....

(1)

(Total 2 marks)

7. The local council is planning to build a new swimming pool.

The councillors want to get the views of the local people.

Councillor Smith suggests taking a sample from the people who attend the local sports centre.

(a) Explain why this would not be a good sample.

....

....

....

(1)

Councillor Singh suggests taking a simple random sample of 100 people.

(b) Describe how the council could take a simple random sample.

....

....

....

(1)

The council decided to use a questionnaire to find out how often people would use the swimming pool.

(c) Design a question the council could use on their questionnaire.

(1)
(Total 4 marks)

8. Gordon is going to open a restaurant.
He wants to know how often people eat out at a restaurant.
He designs a questionnaire.
He uses this question on a questionnaire.

"How often do you go to a restaurant?"

Never	Sometimes	Often

(a) Write down two things that are wrong about this question.

1..

....

2..

....

(2)

(b) Design a more suitable question Gordon could use to find out how often people eat out at a restaurant.

(2)

Gordon asks his family "Do you agree that pizza is better than pasta?"

This is not a good way to find out what people who might use his restaurant like to eat.

(c) Write down two reasons why this is not a good way to find out what people who might use his restaurant like to eat.

1st reason ....

....

2nd reason ....

....

(2)

(Total 6 marks)

9. Gary wants to find out how much time teenagers spend listening to music.
He uses this question on a questionnaire.

> How many hours do you spend listening to music?
>
> [ ]   [ ]   [ ]   [ ]
>
> 1 to 5   5 to 10   10 to 20   over 20

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

1 ....

....

2 ....

....

(2)

(b) Design a better question for Gary's questionnaire to find out how much time teenagers spend listening to music.

(2)

(Total 4 marks)

10. Sophie wants to find out the amount of time people exercise.
She will use a questionnaire.

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

(2)

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

(*b*) **Give a reason why.**

....

....

(1)

(Total 3 marks)