

## Types of Data

Please write clearly in block capitals

Forename:

Surname:

### Materials

For this paper you must have:

- mathematical instruments



You **can** use a calculator.

### Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

### Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

### Advice

- In all calculations, show clearly how you work out your answer.

**1** Define the following terms:

**1(a)** Continuous data

[1 mark]

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**1(b)** Discrete data

[1 mark]

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**1(c)** Quantitative

[1 mark]

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**1(d)** Qualitative

[1 mark]

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Turn over for next question

- 2** Use the words given to complete the sentences below. Each word can be used only once.

Discrete

Continuous

Categorical

Secondary

32 pupils in a classroom fill out surveys.

- 2(a)** Their favourite type of fruit is ..... data.

[1 mark]

- 2(b)** The span of the pupils hands is ..... data.

[1 mark]

- 2(c)** The number of siblings each pupil has is ..... data.

[1 mark]



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Turn over ►

**3** Data is collected on the following areas.

For each, state whether the data is continuous, discrete, quantitative, or qualitative.

The data may fit more than one of these categories.

**3(a)** Favourite colours of 30 students.

[1 mark]

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**3(b)** Time taken to run 100 m (to the nearest second).

[1 mark]

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**3(c)** Duration of journey to school.

[1 mark]

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**3(d)** Which subjects were chosen as an option.

[1 mark]

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**3(e)** Number of students in the school each year.

[1 mark]

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**3(f)** Cost of the journey to school.

[1 mark]

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Turn over for next question

- 4** Sarah is reading an energy saving article on the internet.  
The article covers a broad range of topics.  
She learns that the average UK household uses 349 litres of water per day.

- 4(a)** Is household usage of water discrete or continuous data?

[1 mark]

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Answer \_\_\_\_\_

- 4(b)** Is Sarah working with primary or secondary data?

Justify your answer.

[2 marks]

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**Turn over for next question**

Turn over ►

**5** Coach Feratu is recording the time taken for athletes to complete a 100 m sprint.

**5(a)** State whether this data is discrete, continuous, or categorical.

**[1 mark]**

Answer \_\_\_\_\_

**5(b)** Coach Feratu compares this data to times he recorded the previous month.

Is this primary or secondary data?

List two advantages the type of data the coach has.

**[3 marks]**

Answer \_\_\_\_\_

**Turn over for next question**

- 6 Give one advantage and one disadvantage of using secondary data.  
For each case, provide examples.

**Quality of written communication will be assessed in this question.**

**[4 marks]**

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Answer \_\_\_\_\_

**Turn over for next question**

7

Complete the following sentences by choosing one of the options below.

A significant problem specifically associated with secondary data is...

[1 mark]

It is not be accurate.

It is biased.

It may not address the aims.

It is expensive.

Turn over for next question



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Turn over ►



- 8** Joe is collecting data about shopping habits in his town.  
He does this by handing out surveys at his local supermarket.

- 8(a)** Name one advantage and one disadvantage of this method of data collection.

**[2 marks]**

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Answer \_\_\_\_\_

- 8(b)** Suggest one way Joe could improve the reliability of the data he collects.

**[1 mark]**

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Answer \_\_\_\_\_

**End of Questions**