



S07-10min Collecting Data: 10-minute Pack

EDEXCEL 1ST0 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

- 1** A survey is carried out to find out students' favourite school lunch option, out of Sandwiches, Hot meal, Salad and Packed lunch brought from home.
- (a) Design a suitable data collection sheet to record the results of this survey. Your sheet should include columns for the category, tally and frequency. **(3)**
- (b) Give one reason why the categories on a data collection sheet should not overlap. **(1)**

(Total for Question 1 is 4 marks)

- 2** State whether the number of pets owned by a family is discrete or continuous data, and give a reason for your answer.

(Total for Question 2 is 2 marks)

- 3** Write down whether the following statement is True or False.
Primary data is data collected first-hand by the person carrying out the investigation.

(Total for Question 3 is 1 mark)

- 4** A student wants to find out the average time it takes people to travel to work in her town, and uses figures already published by the local council. Name this type of data, and give a reason for your answer.

(Total for Question 4 is 2 marks)

- 5** A student records, for each of 40 pupils, both their favourite subject (Maths, English or Science) and their year group (Year 9 or Year 10). State the most suitable type of table for recording this data.

(Total for Question 5 is 1 mark)

Mark scheme · S07-10min Collecting Data: 10-minute Pack

Question 1

- (a) **B1** all four given categories listed once each, with no gaps or overlaps
- (a) **B1** a tally column included, ready to record responses with tally marks
- (a) **B1** a frequency column included, clearly headed
- (a) **Answer: Data collection sheet with columns Lunch option | Tally | Frequency, listing Sandwiches, Hot meal, Salad, Packed lunch as the four categories.**
- (b) **B1** so that each response can be tallied into exactly one category (avoids confusion or double counting)
- (b) **Answer: So each response only fits into one category, avoiding double counting.**

Question 2

- **B1** Discrete cao
- **B1** valid reason, e.g. the number of pets can only take whole-number values oe
- **Answer: Discrete, because the number of pets can only take whole-number values (0, 1, 2, ...).**

Question 3

- **B1** True cao
- **Answer: True**

Question 4

- **B1** Secondary data cao
- **B1** valid reason, e.g. the data already existed and was collected by someone else (the council), not the student oe
- **Answer: Secondary data, because it was already collected and published by the council, not by the student herself.**

Question 5

- **B1** Two-way table cao
- **Answer: Two-way table**