

Q1. Leah wants to find out which newspapers her friends read.

Design a data collection sheet that she can use to carry out a survey.

(Total 3 marks)

Q2. Ouzma wants to find out the method of transport people use to travel to a shopping centre.

Design a suitable data collection sheet she could use to collect this information.

(Total 3 marks)

Q3. The table shows information about 6 students.

Name	Age in years	Tutor Group	Studying Spanish	Studying French
Callum	16	11A	Yes	No
Seema	16	11B	No	Yes
Mark	15	11B	Yes	Yes
Abby	15	11A	Yes	No
Ben	16	11B	No	Yes
Lori	15	11B	Yes	Yes

(a) Write down the number of students studying Spanish.

.....

(1)

(b) Write down the names of the students aged 15 years **and** in Tutor Group 11B.

.....

(1)

A student is going to be chosen at random.

(c) Write down the probability that this student is in Tutor Group 11A.

.....

(2)
(Total 4 marks)

M1.

Answer			Mark	Additional Guidance
Type	Tally	Frequency	3	B1 for Type of newspaper (or listing examples) B1 for Tally (or tally marks shown) B1 for Frequency (or Total or evidence of totalling)
Total for Question: 3 marks				

M2.

Answer	Mark	Additional Guidance
Types Tally Frequency	3	B3 for correct table with all three aspects Aspect 1: 'method of travel' or for at least 3 of bus, car, walk, other etc. Aspect 2: 'tally' or tally marks or 'frequency' or 'number of people' Aspect 3: 'frequency' or frequencies or 'total' or totals or 'number of people' B2 for two aspects B1 for one aspect
Total for Question: 3 marks		

M3.

	Answer	Mark	Additional Guidance
(a)	4	1	B1 cao
(b)	Mark and Lori	1	B1 cao (accept M and L)
(c)	$\frac{2}{6}$	2	$\frac{2}{n}$ where $2 < n \leq 6$ or $\frac{n}{6}$ where $n < 6$ M1 for $\frac{2}{n}$ where $2 < n \leq 6$ or $\frac{n}{6}$ where $n < 6$ $\frac{2}{6}$ A1 for $\frac{2}{6}$ oe (condone incorrect cancelling) [SC: B1 for 2 out of 6 or 2 : 6 or 2 in 6 or 1 out of 3, etc. if M0 scored]
Total for Question: 4 marks			

E1. The responses to this question were disappointing. This is a standard question if one is looking to collect data from a number of people. We were expecting to see responses where candidates gave a range of newspapers, made a tally of the number of people they asked and there was a total for each newspaper. Only 31% of candidates gained 3 marks whilst 21% gained 2 marks and 1 mark was obtained by 35% of candidates. Many candidates tried to draw a graph to collect their data and some even made up a question with tick boxes; these candidates did not score many marks.

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Foundation

Many candidates knew exactly what was required and achieved three marks. However, a significant number of candidates simply wrote a question for only one person to give the information of how they had travelled to the shopping centre, and consequently scored just one mark.

Higher

Only about one in seven of candidates scored full marks for their responses to this question. This was the least well answered question on the paper. A large proportion of candidates wrote a question for a questionnaire rather than design a data collection sheet.

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Parts (a) and (b) were usually correctly answered, although Abby was often included in the list in part (b).

In part (c), $\frac{2}{4}$ and $\frac{1}{6}$ were the most common incorrect answers offered. Many candidates lost marks because of incorrect notation eg. 2 out of 6, 2:6. Some tried to cancel but offered an alternative answer, using OR not equals, and therefore losing the marks; for example $\frac{2}{6}$ or $\frac{1}{2}$.