

SURVEYS

Name:

Assessment Criteria: Design a survey or experiment to capture the necessary data from one or more sources; design, trial and, if necessary, refine data collection sheets; construct tables for large discrete and continuous sets of raw data, choosing suitable class intervals; design and use two way tables.

1. Are the following questions appropriate to use in a questionnaire? Give reasons for your answer.

i) *'Intelligent people think that 4 × 4 vehicles should be banned in all cities. Do you think 4 × 4 vehicles should be banned in all cities?'*

Yes No

ii) *'Do you like the all new improved better tasting cola?'*

2. Mr Healthy hates fast food. He is interested to find out the eating habits of students at his local school. Design a suitable question for a questionnaire that he could use to collect the data.

3. Mr Healthy visits a school and asks the first 10 students he can find a question about their lunch. They are all in Year 7 and he is delighted to hear that they all eat healthy sandwiches and no chips. He goes home happy knowing that all students in the school eat healthily. Do you agree with his conclusion? Give reasons for your answer.

4. Naseem is finding out about how much pocket money her friends get. She uses the following question:

How much pocket money do you get?

- £0 £1 to £3 £3 to £5 £5 to 10 More than £10

Write down two different types of problem Naseem will have with the question.

5. 100 students in a secondary school are surveyed about mobile phone use. 39 boys have a mobile phone, 49 girls have a mobile phone and 6 boys do not have a mobile phone. Show this information in a completed two-way table.

Overall, I think my success level is:

Low High
 ○ ○ ○ ○

Q	SURVEYS	😊	☹️
	I can design a survey with a data collection sheet		
	I can identify and improve inappropriate questions		
	I can identify the reason for a question being poorly designed		
	I am aware of the impact a sample can have on the accuracy of results or conclusions		
	I can use a two-way table		
	<i>I can present a concise, reasoned argument, using symbols, diagrams, graphs and related explanatory texts</i>		

I need to practise ...