

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?			
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
1 to 5	5 to 10	10 to 20	Over 20

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

1 no time period.

2 boxes overlap

You could also have mentioned: no '0' option

(2)

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

How many hours do you spend listening to music per week?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0	1-3	4-6	7+

(2)

Sam wants to find out the type of films people like best.

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

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

Film	Tally	Frequency
Comedy		3
Action		4
S/Fiction		2
Musical		1

(2)

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.

1. 10 is not a big enough sample OR
2. They are all the same age in his class

(1)

200 students in year 11 took a mathematics test. Kamini wants to find out whether these students like mathematics. For her sample she asks the 20 students who got the highest marks in the test.

This is not a good sample to use.

a) Write down one reason why.

1. 20 is not a big enough sample  
 OR 2. Those that had the highest marks will probably like maths and will give biased results

(1)

She uses this question on her questionnaire.

What do you think of mathematics?		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Excellent	Very good	Good

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

it doesn't include options for people who don't like maths

(1)

Kamini also wants to find out how many hours students spend on their mathematics homework.

c) Design a suitable question that Kamini could use on her questionnaire. You must include some response boxes.

How many hours per week do you spend doing your maths homework?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0	1-2	3-4	5+

(2)

