## Design questionnaires avoiding bias

Miss Parnham

## Design questionnaires avoiding bias

1. Identify two errors in each of these
sets of question and responses.

How frequently do you download films?
-1-2 times - 3-4 times $-5+$ times

How often do you go to the cinema?

- Never $\circ$ Sometimes $\square$ Always

How much time, per week, do you spend watching films?
-1-3 hours 04-5 hours $0>6$ hours
2. Mo wants to find out how much time students spend exercising.
a) Design a suitable question with response boxes.
b) Mo decides to ask the football team to complete his questionnaire. Why might this not be a wise choice?

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3. Identify the leading questions.

Do you agree that children don't eat enough vegetables?

How many portions of fruit and vegetables do you usually eat per day?

How many take-away meals do you
typically eat each month?

> Fast food is unhealthy, how many times a week do you eat fast food?

Do you agree that sugary drinks should be banned?
4. Jack is planning to open a street food stall and wants to know what sort of food he should serve.

He asks his friends "Do you agree that a plant-based diet is healthier than eating meat?"

What two mistakes has Jack made that may bias his results?

Answers

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1. Identify two errors in each of these sets of question and responses.

How frequently do you download films? - 1-2 times - 3-4 times $\circ 5+$ times

No time frame and no option for 0
How often do you go to the cinema?

- Never - Sometimes - Always

No time frame and ambiguous descriptions.
How much time, per week, do you spend watching films?
-1-3 hours $04-5$ hours $0>6$ hours
No option for O and gaps between categories.
2. Mo wants to find out how much time students spend exercising.
a) Design a suitable question with response boxes.
How many hours, per week, do you spend exercising?

- 0 oup to 1 hour ol -3 hours $0>3$ hours
b) Mo decides to ask the football team to complete his questionnaire. Why might this not be a wise choice? Small sample size and a biased sample of people who are more inclined towards playing sport.


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3. Identify the leading questions.

Do you agree that children don't eat enough vegetables?

How many portions of fruit and vegetables do you usually eat per day?

How many take-away meals do you
typically eat each month?

Fast food is unhealthy, how many times a
week do you eat fast food?

Do you agree that sugary drinks should be banned?
4. Jack is planning to open a street food stall and wants to know what sort of food he should serve.
Asked a small group of people who may not be representative of the population. He asks his friends "Do you agree that a plant-based diet is healthier than eating meat?" Asked a leading $\begin{aligned} & \text { question that may }\end{aligned}$ influence the response. What two mistakes has Jack made that may bias his results?

