

Statistics and Probability [166 marks]

Juliet is a sociologist who wants to investigate if income affects happiness amongst doctors. This question asks you to review Juliet's methods and conclusions.

Juliet obtained a list of email addresses of doctors who work in her city. She contacted them and asked them to fill in an anonymous questionnaire. Participants were asked to state their annual income and to respond to a set of questions. The responses were used to determine a *happiness score* out of 100. Of the 415 doctors on the list, 11 replied.

- 1a. Describe **one** way in which Juliet could improve the reliability of her investigation. [1 mark]

Markscheme

Any one from: **R1**

increase sample size / increase response rate / repeat process
check whether sample is representative
test-retest participants or do a parallel test
use a stratified sample
use a random sample

Note: Do not condone:

Ask different types of doctor
Ask for proof of income
Ask for proof of being a doctor
Remove anonymity
Remove response K.

[1 mark]

- 1b. Describe **one** criticism that can be made about the validity of Juliet's investigation. [1 mark]

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Arturo Cuomo



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