

Section E Research methods

Answer **all** questions in the spaces provided.

Total for this question: 20 marks

5 The newspaper article in question 4 suggested that an increase in levels of aggression in children could be caused by playing violent video games.

A psychologist conducted a study to see whether this was true. This is what she did.

- She selected a group of 10 children aged between 11 and 14 from a school, using systematic sampling.
- She asked the mothers of the 10 children to complete a questionnaire about the number of hours a week that their son or daughter played violent video games.
- She asked the Head Teacher of the 10 children to rate the children’s aggression at school on a scale from 1 to 10, where 1 meant that the child was not aggressive and 10 meant that the child was very aggressive.

5 (a) Outline **one** advantage and **one** disadvantage of using questionnaires in psychological research.

Advantage

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Disadvantage

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(4 marks)

5 (b) What is the difference between *closed questions* and *open questions*?

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(2 marks)



5 (c) Which of the following questions is a closed question? (*Tick the correct box.*)

Does your child play video games? Yes or No	<input type="checkbox"/>
What do you think about video games?	<input type="checkbox"/>

(1 mark)

5 (d) Outline **one** way in which the psychologist could have obtained her sample using systematic sampling.

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(2 marks)

5 (e) (i) Identify **one** ethical issue that the psychologist should have considered in this study.

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(1 mark)

5 (e) (ii) Briefly outline how the psychologist could have dealt with the ethical issue that you have identified in **5(e)(i)**.

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(2 marks)

Question 5 continues on the next page

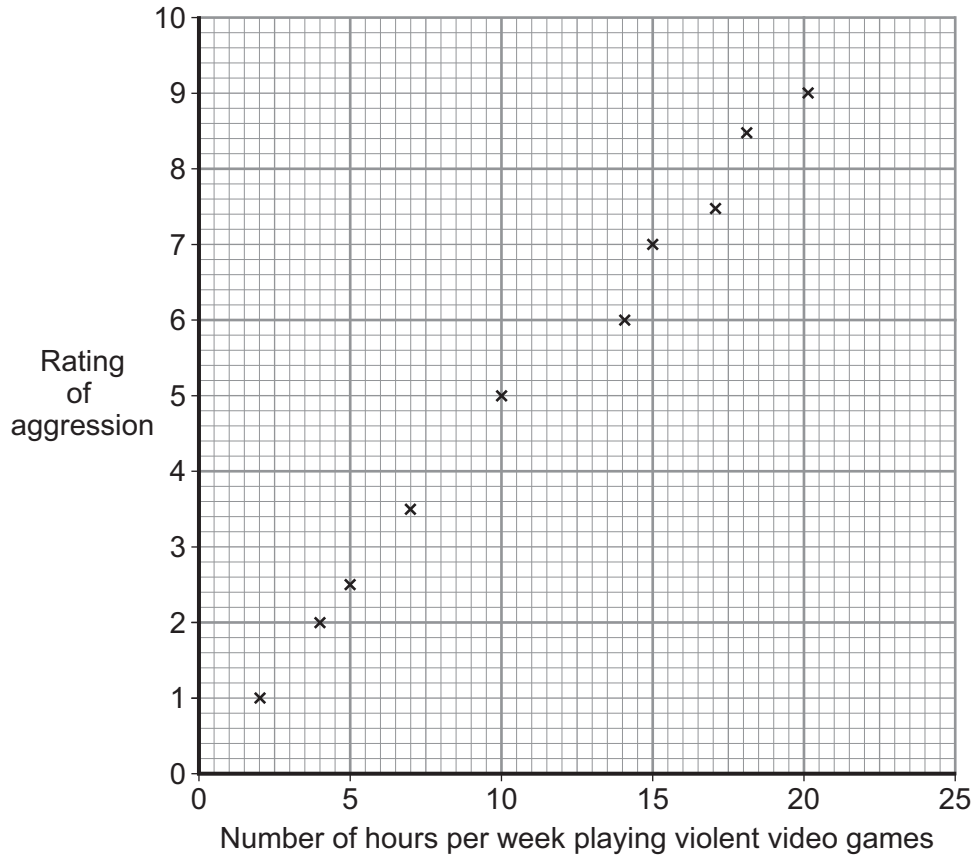
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After the study, the psychologist decided to use a correlation to analyse the results. She plotted these results on the scatter graph below.

- 5 (f)** Look at **Figure 1**. Identify the type of correlation that has been found. (Tick the correct box.)

Figure 1: Graph to show the relationship between the number of hours per week playing violent video games and the rating of aggression



Positive correlation	<input type="checkbox"/>
Negative correlation	<input type="checkbox"/>
No correlation	<input type="checkbox"/>

(1 mark)

- 5 (g)** Justify your answer to **5 (f)**.

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(2 marks)



5 (h) Which of the following statements is **TRUE**?
(Tick the correct box.)

Correlations can show the strength of a relationship between two variables.	
Correlations show the causes of behaviour.	

(1 mark)

5 (i) Outline **one** limitation of using a correlation in psychological research.

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(2 marks)

5 (j) Another way of collecting data would have been for the psychologist to observe the behaviour of the children in their school.

Outline **either** an advantage **or** a disadvantage of using observations in psychological research.

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(2 marks)

20

END OF QUESTIONS

