



Thursday 12 June 2014 – Afternoon

GCSE PSYCHOLOGY

B543/01 Research in Psychology

Candidates answer on the Question Paper.

OCR supplied materials:

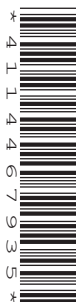
None

Other materials required:

None

Duration: 1 hour

MODIFIED LANGUAGE



Candidate forename		Candidate surname	
-----------------------	--	----------------------	--

Centre number						Candidate number				
---------------	--	--	--	--	--	------------------	--	--	--	--

INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined pages at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the bar codes.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **40**.
- This document consists of **12** pages. Any blank pages are indicated.

SECTION A – PLANNING, DOING AND ANALYSING RESEARCH

Answer **all** questions.

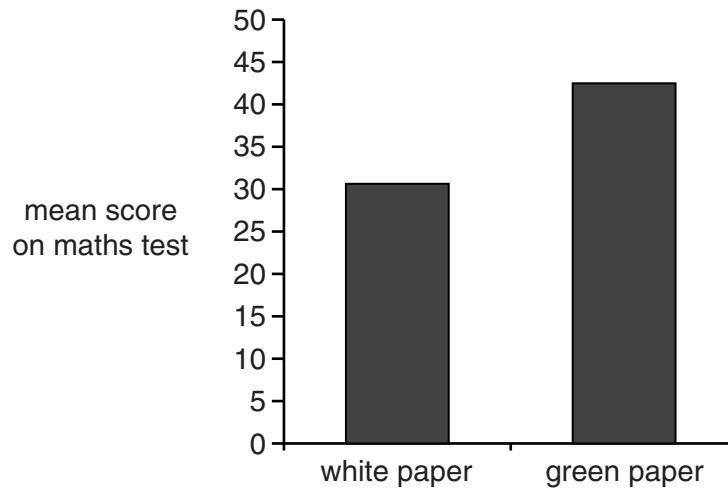
Source

A psychologist investigated whether using coloured paper can improve student performance. He wanted to find out whether students who take a maths test printed on coloured paper will perform better than students who take the same maths test printed on white paper.

The psychologist chose twenty students to be his participants as they were available and convenient to him. He gave all the participants a maths test printed on white paper. He recorded the scores for each participant. Exactly one week later, the psychologist gave all the participants the same maths test, this time printed on green paper. Again he recorded the scores for each participant.

The results of the two maths tests are shown in the bar chart below.

Graph 1: A bar chart showing the mean score for the maths test printed on white and green paper.



- 1** Give the aim of this study.

.....
..... [1]

- 2** State an alternate hypothesis for this study.

.....
.....
.....
..... [2]

- 3 (a) State the sampling method used by the psychologist in this study.

..... [1]

- (b) Outline **one** disadvantage of the sampling method used in this study.

.....
.....
.....
.....
.....
..... [2]

- 4 The psychologist chose twenty participants from his target population.

Explain what a target population is.

.....
.....
.....
..... [2]

- 5 (a) Identify the experimental design used in this study.

Tick (✓) **one** box to show your answer.

Repeated measures design

☐

Independent groups design

☐

[1]

- (b) Explain **one** disadvantage of the experimental design used in this study.

.....

.....

.....

.....

.....

..... [2]

- 6 Identify the independent variable and the dependent variable in this study, using the diagram below.

Draw a line from each box in column **A** to the correct box in column **B**.

A

B

Independent variable

Maths test printed on green or white paper

When the maths test was taken

Dependent variable

Score on the maths test

[2]

- 7 The psychologist used a laboratory experiment in this study.

Explain how laboratory experiments are different from field experiments.

.....

.....

.....

.....

.....

..... [2]

- 8 The psychologist gave participants the same maths test printed on white and then green paper.

Explain why the psychologist used the same maths test.

.....

.....

.....

.....

.....

.....

.....

.....

..... [2]

- 9 The psychologist calculated the mean score on each maths test in this study.

Identify what type of data this is.

Tick **one** box to show your answer.

Qualitative ☐ Quantitative ☐

[1]

10 Outline the findings of this study.

.....

.....

.....

.....

.....

..... [2]

11 This study raises a number of ethical issues.

Complete the following table by choosing an ethical issue from the list to match each definition.

Deception Right to withdraw Consent Confidentiality

Ethical issue	Definition
	The students should agree to take part in this experiment.
	The psychologist should protect students' identities when recording the scores on the maths test.
	The psychologist should not lie to the students and should tell them the nature of the experiment.

[3]

12 Extraneous variables can affect experiments.

Explain what an extraneous variable is.

.....

.....

.....

..... [2]

SECTION B – PLANNING AN INVESTIGATION

Answer **all** questions.

You have been asked to use a questionnaire to investigate whether there are gender differences in addiction to computer games. The theory is that males are more addicted to playing computer games than females are.

Use this space to plan your investigation.

13 (a) State a null hypothesis for your investigation.

.....

.....

.....

..... [2]

(b) (i) Give **one** example of a question you would use in your questionnaire.

.....

..... [1]

(ii) Explain why you would use this type of question in your questionnaire.

.....

.....

.....

..... [2]

- (c)** Briefly outline how you would use the questionnaire to investigate whether there are gender differences in addiction to computer games.

..... [3]

- (d)** Outline how social desirability could affect your investigation.

..... [3]

- (e) Describe **one** strength of using a questionnaire in your investigation.

..... [2]

- (f)** Outline how you would present the data you collect from your questionnaire.

..... [2]

This image shows a blank sheet of white paper designed for handwriting practice. It features a solid black vertical line on the left side, creating a narrow margin. The rest of the page is filled with evenly spaced, horizontal dashed lines for writing. There are no other markings or text on the page.

PLEASE DO NOT WRITE ON THIS PAGE



Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact the Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.