Please write clearly ir	h block capitals.	
Centre number	Candidate number	
Surname		
Forename(s)		
Candidate signature	I declare this is my own work.]

GCSE **PSYCHOLOGY**

Paper 1 Cognition and Behaviour

Friday 19 May 2023

Afternoon

Time allowed: 1 hour 45 minutes

Materials

For this paper you may use:

a calculator.

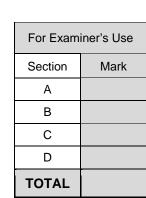
Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 100.
- Question 18 is a synoptic question in which you will be rewarded for your ability to draw together different areas of knowledge and understanding from across the full course of study.
- Questions should be answered in continuous prose. You will be assessed on your ability to:
 - use good English
 - organise information clearly
 - use specialist vocabulary where appropriate.





PMT

IB/G/Jun23/E8

	Section A	Do not writ outside the box
	Memory	
	Answer all questions in the spaces provided.	
		_
Only one	answer per question is allowed, except where stated otherwise.	
	question completely fill in the circle alongside the appropriate answer.	
CORRECT MET		
If you wan	It to change your answer you must cross out your original answer as shown.	
If you wish as shown.	n to return to an answer previously crossed out, ring the answer you now wish to select	
0 1	Which of the following describes semantic memory?	
	Shade one box. [1 mark]	
	A It contains events that have occurred in our lives	
	B It helps us carry out physical actions	
	C It retains information for approximately 30 seconds	
	D It stores facts about general knowledge and meanings	
02	Which of the following is the correct definition of a 'false memory'?	
	Shade one box.	
	[1 mark]	
	A feeling that we have experienced something similar before	
	B A memory for something that didn't happen but feels true	
	C Not being able to remember the correct answer to a question	
	D The confusion between two similar memories	



0 3	What is meant by 'encoding' as a process of memory?	Do not write outside the box
	[2 ma	ırks]
	Turn over for the next question	
	Turn ov	ver ►



		Do not write
04.1	A researcher wanted to investigate the effect of context on the accuracy of memory.	outside the box
	Describe how she could design a laboratory experiment to do this.	
	You need to include the following information in your answer:	
	 a task that she could ask participants to carry out and a description of the data she would collect what the conditions of the independent variable would be one extraneous variable that could affect the results and how the researcher could control this variable. 	
	[6 marks]	



	5		
04.2	The researcher considered different experimental designs when planning her experiment.		Do not wri outside th box
	Identify and explain one strength and one weakness of an independent groups design.		
	Write your answers in the correct spaces provided.	[4 marks]	
	Strength		
	Weakness		
	Turn over for the next question		



0 5	Evaluate the multi-store model of memory.	[4 marks]	Do not writ outside the box
06	Describe the method used by Bartlett in his 'War of the Ghosts' study.	[3 marks]	



0 7	Read the following information.	Do not write outside the box
	Dan and his Uncle Bill are chatting about the day Dan was born.	
	Dan: "Uncle Bill, what day of the week was I born on?"	
	Uncle Bill: "I think you were born on a Tuesday. Or maybe it was your older sister who was born on a Tuesday. I get mixed up."	
	Use your knowledge of interference to explain why Uncle Bill cannot accurately remember what day of the week Dan was born on. [4 marks]	
		25
	Turn over for Section B	



Sensation or perception			
Answer all questions in the spaces provided.		Section B	
 8 'Fiction' is one explanation for why people see visual illusions. Which of the following visual illusions is an example of fiction? Shade one box. [1 mark] A The Ames room B The Kanizsa triangle C The Müller-Lyer D The Necker cube C Stasked to close his eyes and taste different foods. He then has to guess what the foods are. He thinks that one of them is very familiar and correctly recognises it as strawberry yoghurt. State whether Kishan is experiencing sensation or perception when he correctly recognises the strawberry yoghurt. Explain your answer. [2 marks] 		Perception	
 Which of the following visual illusions is an example of fiction? Shade one box. [1 mark] A The Ames room B The Kanizsa triangle C The Müller-Lyer D The Necker cube D The Necker cube Skishan is studying Food Preparation and Nutrition at school. During one of his lessons, he is asked to close his eyes and taste different foods. He then has to guess what the foods are. He thinks that one of them is very familiar and correctly recognises it as strawberry yoghurt. State whether Kishan is experiencing sensation or perception when he correctly recognises the strawberry yoghurt. Explain your answer. [2 marks] Sensation or perception		Answer all questions in the spaces provided.	
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box

Read the following article.

1 0

In a study investigating perceptual set, 40 participants were asked to place their hand in a bucket of water for 10 seconds whilst listening to music. The temperature of the water was the same for each participant.

They were asked to give a number between 1 and 50 to report how warm they thought the water was.

A score of 1 meant the water felt extremely cold. A score of 50 meant that the water felt extremely hot.

There were two conditions of the experiment. All participants completed both conditions.

In **Condition A**, participants listened to a famous song that is associated with winter and Christmas.

In **Condition B**, participants listened to a famous song that is associated with summer and the sunshine.

Question 10 continues on the next page



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Table 1 shows the frequency of reported temperature scores for **Condition A**.One of the scores is missing.

	Reported temperature score	Frequency	
	1–5	6	
	6–10		
	11–15	16	
	16–20	1	
	21–25	2	
	26–30	0	
	31–35	2	
	36–40	1	
	41–45	0	
	46–50	1	
0.2			
	Calculate the number of participants who 6 and 10.	reported a temperature s	score between
	Calculate the number of participants who 6 and 10. Show your workings.	reported a temperature s	
	6 and 10.	reported a temperature s	
	6 and 10. Show your workings.	reported a temperature s	
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	6 and 10. Show your workings.	reported a temperature s	
	6 and 10. Show your workings. Workings:	pants	[2 mark



-	de the number of participants you wrote in answer to Question 10.2	
Provi	ide a suitable title and labels for your histogram.	[4 ma
Title		
-		



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box

10.4 The

The researcher found that participants in Condition B reported the water felt warmer than participants in Condition A.
 Using your knowledge of 'perceptual set', outline one conclusion that the researcher could make from these findings.
 [2 marks]



			Do not write outside the
1 1	Bruner and Minturn investigated the effect of expectation on perception.		box
	Describe Bruner and Minturn's study.	[4 marks]	
	·		
	Turn over for the next question		
		Turn over ►	



12	Describe and evaluate Gibson's direct theory of perception. [9 n	Do not wr outside th box



Extra space	 	



Section C	
Development	
Answer all questions in the sp	baces provided.
3 Which of the following is a small structure a movement and balance?	at the base of the brain that coordinates
Shade one box.	[1 mark]
	[
A Brain stem	
B Cerebellum <a>O	
C Cortex	
D Thalamus	
4 Which of the following is a true statement a	bout people who have a growth mindset?
Shade one box.	[1 mark]
A They avoid challenges	0
 B They believe ability will improve with pra 	
C They feel threatened by the success of c	
D They ignore negative criticism that is use	eful 🖸



1 5	Read the following information.
	You have been asked to design an experiment to investigate whether having a fixed mindset or a growth mindset will affect students' performance in their end of year exams.
1 5.1	Identify what the independent variable and dependent variable would be in your experiment.
	Write your answers in the correct spaces provided. [2 marks]
	Independent variable
	Dependent variable
1 5.2	The target population for your experiment is Year 8 students at a local school. There are 100 Year 8 students at this school.
	Describe how you could select 20 participants for your experiment using
	random sampling. [3 marks]



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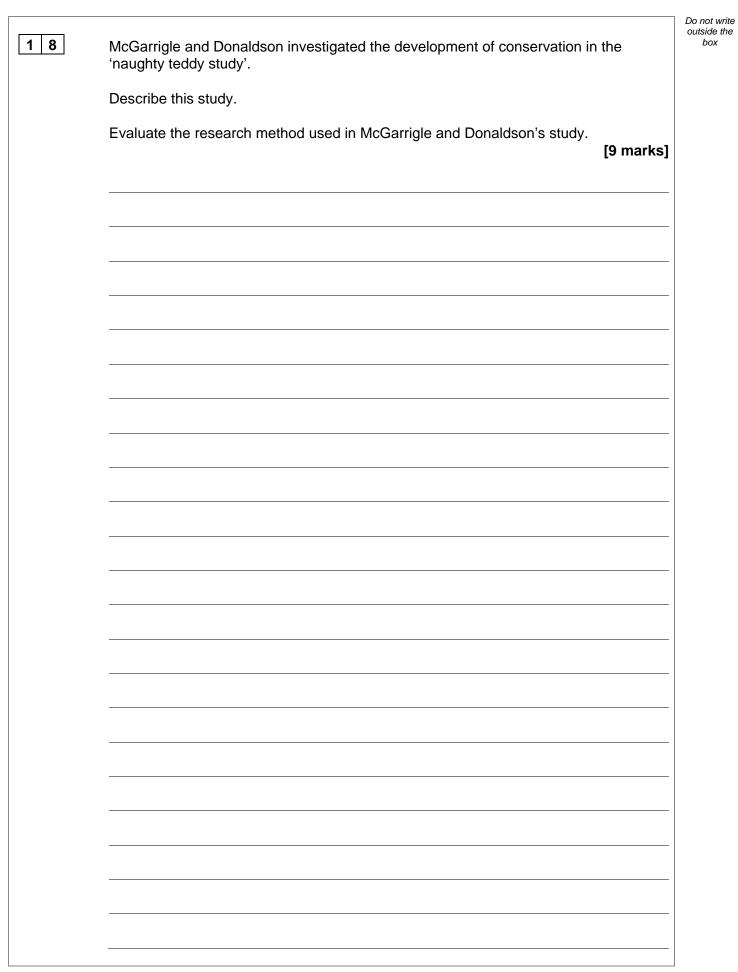




1 7	Evaluate Piaget's stage theory of cognitive development.	Do not write outside the box
		5 marks]
	Turn over for the next question	



box



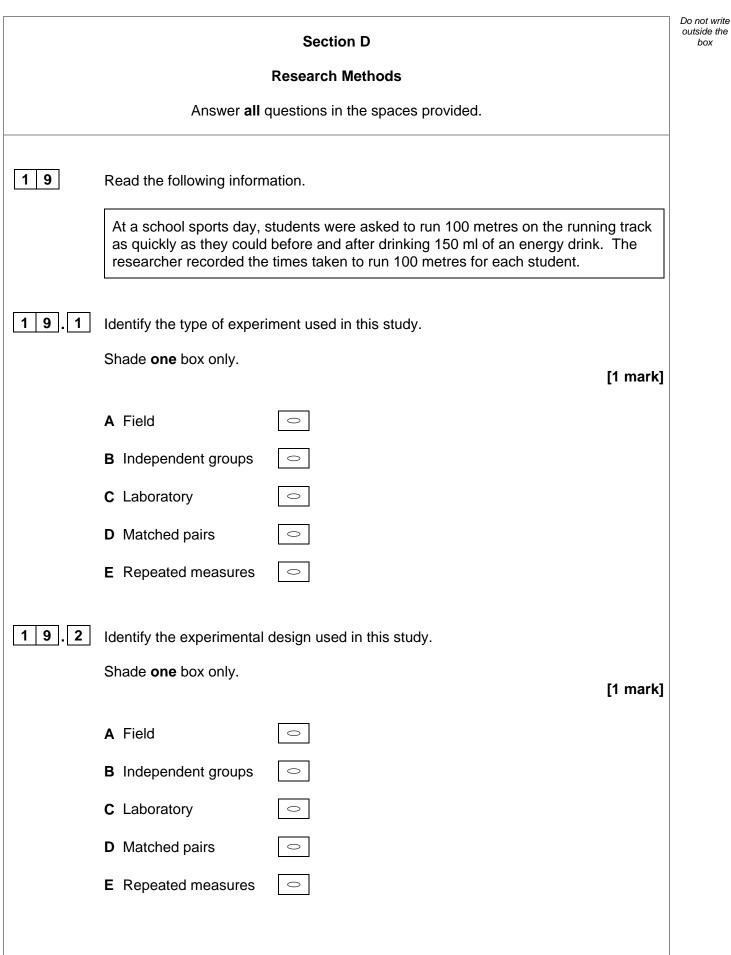


Extra space	Do not write outside the box
	25
	L]





box





		Do not write
2 0	Explain one difference between primary and secondary data. [3 marks]	outside the box
	Turn over for the next question	
	Turn over ►	



lurn over

		Do not wri
2 1	Read the following information.	outside the box
	In a sixth form centre, students have independent study lessons as well as subject lessons.	
	Students use the sixth form learning area during their independent study lessons. They are expected to use their study lessons to finish work related to their subjects.	
	Teachers are concerned that some students spend more time chatting to friends than finishing work during study lessons. A researcher is asked to investigate how students are using study lessons.	
	The researcher asked 30 students to fill in a questionnaire about how they spend their study lessons. They selected participants using stratified sampling.	
2 1.1	Explain one weakness of using a stratified sample when conducting research. [2 marks]	



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box

2 1 . 2

2 The responses of participants to Question 1 of the questionnaire are shown in **Table 2**.

Table 2 Responses of participants to Question 1:

'Do you think your progress in lessons is positively affected by the amount of time you spend doing independent study?'

YES	NO
19	11

Calculate the percentage of participants who responded YES.

State your answer using two significant figures and show your workings.

[3 marks]

Workings:

%

Question 21 continues on the next page



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21. 3 Participants were also asked to estimate the amount of time they spent working and chatting to friends during a typical 70 minute study lesson.

The mean estimates for 30 participants are shown in Table 3.

Table 3 Mean estimated amount of time spent working and chatting to friends during a typical 70 minute study lesson for 30 participants.

Activity	Mean estimated time (in minutes)
Time spent working during a typical 70 minute study lesson.	60
Time spent chatting to friends during a typical 70 minute study lesson.	10

What is the ratio of time spent working compared to time spent chatting to friends?

Write this ratio in its simplest form.

[2 marks]

Answer



Do not write outside the

box

2 1. **4** Read the following information.

The researcher wanted to find out more about the **types of learning activity** happening during study lessons. They decided to observe the actual behaviour of the same participants during study lessons. They worked with an assistant using CCTV camera recordings of the sixth form learning area during study lessons. They used recordings taken over the past two days.

Identify **two** ethical issues that researchers should consider in observation studies. [2 marks]

Ethical issue 1

Ethical issue 2_____

Question 21 continues on the next page

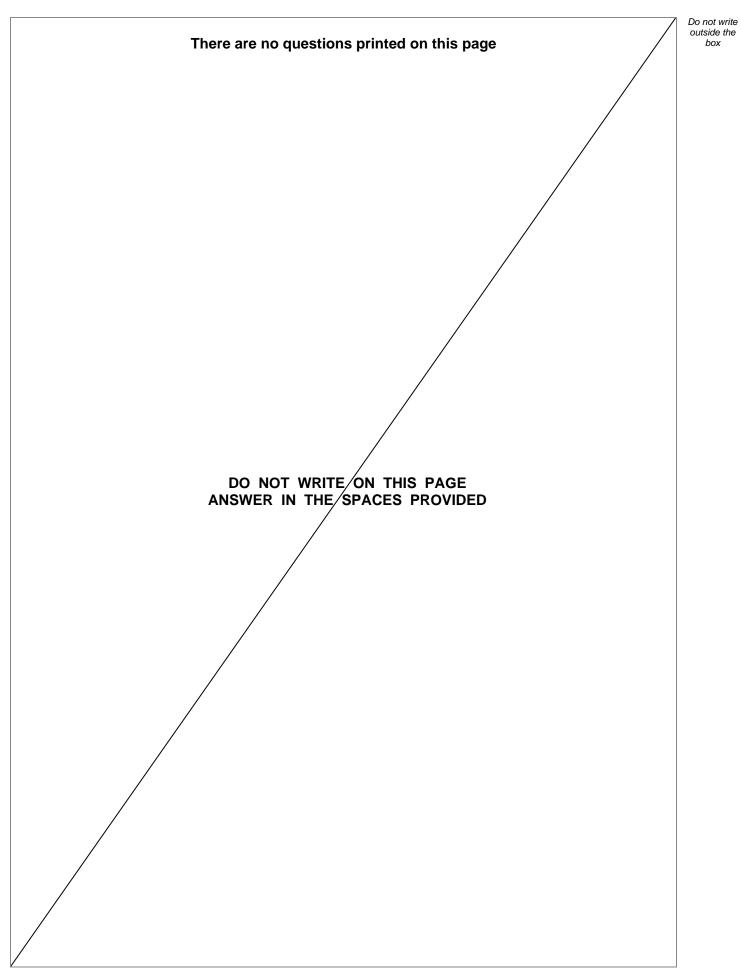


Sketch a frequency table the researcher and their assistant can use to colle information about the types of learning activity participants do during study le Include two categories of behaviour about types of learning activity in your frequency table	
frequency table.	r
Do not include 'chatting to friends' and 'completing work' as categories of be	haviour. [4 marks]
The psychologist and their assistant had high interobserver reliability in their observation study.	
Define what is meant by 'interobserver reliability' in observational research.	[2 marks]
	The psychologist and their assistant had high interobserver reliability in their observation study.



box







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Question number	Additional page, if required. Write the question numbers in the left-hand margin.



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Question number	Additional page, if required. Write the question numbers in the left-hand margin.
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