Name:	
Tutor Group:	

IGCSE Psychology Paper 1 Revision & Exam Pack







INTERNATIONAL GCSE PSYCHOLOGY

Paper 1 Cognition and behaviour

Specimen paper 07:00 GMT Time allowed: 2 hours

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.

Section A - Memory

	•	
	Answer all questions in the spaces provided.	
0 1	Oscar is learning to speak both French and Spanish at school. Sometic confused and uses French words when he is speaking Spanish.	mes he gets
	Which of the following factors best explains the problem Oscar is expe	riencing?
	Shade one box.	
		[1 mark]
	A Context	0
	B False memory	0
	C Interference	0
	D Serial position	0
0 2.1	Describe Bartlett's 'War of the Ghosts' study.	[4 marks]
		_

0 4	Tami was watching her son, Lin, who was swimming up and down in the swimming pool. Her friend said, "Lin is an excellent swimmer. He gets into the pool and immediately starts swimming." Tami replied, "Yes, he is and he never stops playing sports and studying. Last week he learned the capital cities of 40 countries. Then he described everything that happened at his best friend's graduation party."	
	Using your knowledge of procedural memory, episodic memory and semantic	
	memory, explain Lin's behaviour.	
	[6 marks]	
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0 5	Evaluate the multi-store model of memory	[6 marks]

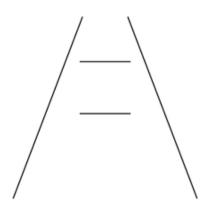
Turn over for the next section

Section B - Perception

Answer all questions in the spaces provided.			
0 6	Which two of the following are binocular depth cues?		
	Shade two boxes.		[2 marks]
			[= marko]
	A Convergence	0	
	B Height in plane	0	
	C Linear perspective	0	
	D Relative size	0	
	E Retinal disparity	0	
	What type of illusion is the visual ill	usion known as the Kanizas triangle?	
0 7	what type of illusion is the visual ill	usion known as the Kanizsa triangle?	
	Explain how the Kanizsa triangle illusion works. [4 marks		
	-		
	-		

People often think the two horizontal lines in the Ponzo illusion are different lengths. The horizontal lines are the same length.

Figure 1



The Ponzo illusion

Use your knowledge of Gregory's constructivist theory of perception to explain the Ponzo illusion shown in ${\bf Figure~1}$.

[4 marks]

0 9 Read the following information.

A teacher carried out an experiment to investigate factors that can affect perception.

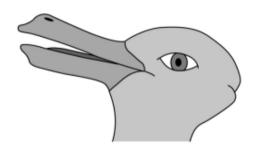
She divided her class into two groups: A and B.

Group A was shown nine different pictures of rabbits.

Group B was shown nine different pictures of ducks.

Both groups were then shown Figure 2 and were asked what animal they saw.

Figure 2



The results are shown in Table 1.

Table 1: The type of animal seen by the children after **Figure 1** was shown.

Animal	Group A	Group B
Rabbit	12	2
Duck	3	13

Use your knowledge of **one** factor that affects perception to explain the results shown in **Table 1**.

III Table II	[3 marks]

1 0	Describe and evaluate Gibson's direct theory of perception.	[12 marks]

Section C - Biopsychology

Answer all questions in the spaces provided.		
1 1	Complete the following sentence.	
	Shade one box only.	
	Sensory neurons carry information	[1 mark]
	A both to and from the central nervous system.	0
	B from the central nervous system.	0
	C to the central nervous system.	0
	D within the central nervous system.	0
1 2	Briefly outline the role of the endocrine system.	[2 marks]
		_

1 3	Read the following information.		
	Rhys was walking to school on the morning of his psychology examination. He noticed that he was breathing faster than normal and wondered if that was because he was in a hurry, or because he was worried about his examination. As he arrived at school, Rhys saw other students from his class coming along the street. He felt his heart start to beat faster and he started to sweat. However, he tried to look confident by smiling and standing up straight.		
	From the information, identify two examples system and two examples of functions of the		
	Write your answers in the correct boxes.	[4 marks]	
	Autonomic nervous system	Somatic nervous system	
1 4	Liana has had a stroke. She now finds she has difficulty moving one side of her body.		
	Use your knowledge of psychology to name neuropsychologist should investigate.	e which lobe of Liana's brain a	
	Explain your answer.	[2 marks]	

1 5	Name an appropriate scanning technique that the neuropsychologist could use to investigate Liana's problems.		
	Justify your answer.	[4 marks]	
-			
1 6	Outline possible effects of damage to Broca's area.	[3 marks]	
1 6	Outline possible effects of damage to Broca's area.	[3 marks]	
1 6	Outline possible effects of damage to Broca's area.	[3 marks]	
1 6	Outline possible effects of damage to Broca's area.	[3 marks]	
1 6	Outline possible effects of damage to Broca's area.	[3 marks]	
1 6	Outline possible effects of damage to Broca's area.	[3 marks]	

1 7	Describe and evaluate Hebb's theory of learning and neuronal growth.	[9 marks]

Section D - Research Methods

Answer all questions in the spaces provided.

1 8	Which of the following is most likely to provide secondary data?
	Shade one hox

[1 mark]

A Asking people to complete a questionnaire about their favourite shops

B Collecting information already published by different shops

 \circ

C Observing people in a shopping centre

0

 $\boldsymbol{\mathsf{D}}$ The researcher interviewing people shopping in a supermarket

0

1 9 Which of the following sets of data is normally distributed?

[1 mark]

Shade **one** box.

A mean = 24 median = 26 mode = 29

0

B mean = 26 median = 26 mode = 26

0

C mean = 29 median = 20 mode = 25

0

D mean = 29 median = 26 mode = 24

2 0	Read the following information:
	A researcher wanted to investigate whether the timing of the school day might have an effect on student attendance.
	The head teacher at a local school allowed him to carry out an experiment with all 190 Year 9 students over an eight-week period. Year 9 students are 13 – 14 years old.
	In the first part of the experiment, the school day began at 8.30 am and finished at 3.30 pm for four weeks (the early start condition).
	In the second part of the experiment, the school day began at 10.00 am and finished at 5.00 pm for four weeks (the late start condition).
	The researcher recorded the total number of school days missed by Year 9 students during the first and second parts of the experiment.
2 0 . 1	Identify the independent variable in this study. [1 mark]
2 0 . 2	Identify the dependent variable in this study. [1 mark]
	Question 20 continues on the next page

2 0 . 3	Write a null hypothesis that is	s suitable for this study.	[2 marks]	
	-			
	Table 2: Total number of day start conditions	s missed by 190 Year 9 stud	ents in the early and late	
		Early start condition	Late start condition	
	Total number of days missed	266	76	
2 0.4	Table 2 shows the total number of days missed by 190 Year 9 students in the early and late start conditions.			
	Calculate the mean number of	of days missed by students in	the late start condition.	
	Show your workings.		[2 marks]	
	_		_	

The mean for the early start condition was 1.4	
Use this mean and your calculated mean from question 20.4 to sketch an a graph to show the mean number of days missed by each student in the eastart conditions.	appropriate rly and late
Label the axes and provide a suitable title for your graph.	[5 marks]
What do the results of the study as shown in the graph you have drawn su	ggest? [2 marks]
	Use this mean and your calculated mean from question 20.4 to sketch an a graph to show the mean number of days missed by each student in the eastart conditions.

2 0 . 7	Explain the experimental design the researcher used in this study. [2 marks]
2 0 . 8	This study is an example of a field experiment.
	Explain one strength of using a field experiment to investigate student absence. [2 marks]
	[2 marks]

2 1	The researcher wanted to interview a sample of the students to find out how they felt about starting school earlier and later in the day.
2 1.1	Explain how the researcher could use systematic sampling to get his sample of students
	[3 marks]
2 1.2	Identify one ethical issue the researcher should deal with before interviewing the Year 9 students.
	Explain how he could deal with this issue.
	[3 marks]

END OF QUESTIONS

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INTERNATIONAL GCSE PSYCHOLOGY 9218

Paper 1 Cognition and behaviour

Additional specimen paper 07:00 GMT Time allowed: 2 hours

Materials

For this paper you must have:

a calculator.

Instructions

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- Do all rough work in this answer book. Cross through any work you do not want to be marked.

Information

- The marks for each question are shown in brackets.
- The maximum mark for this paper is 100.

Section A

Memory

	wemory	
	Answer all questions in this section.	
correct If you v	Ch question completely fill in the circle alongside the appropriate at METHOD INCORECT METHODS © © © © Vant to change your answer you must cross out your original answirsh to return to an answer previously crossed out, ring the answers shown.	wer as shown.
0 1	Which of the following statements is an example of encoding in m	nemory.
	Select one answer only.	[1 mark]
Α	Holding information in a memory store	0
В	How much information can be kept in a memory store	0
С	Putting information into a form that can be stored in memory	0
D	Recovering information from storage in memory	0
	Turn over for next question	

Participants in a memory study listened to a recording in which a list of 21 words were heard being read out. As soon as the last word was heard, they were told to write down as many words as they could remember in any order.

The results of the study are shown in **Table 1** below.

Table 1: showing the position of the words on the list and how many words were recalled on average from each position.

	The first 7 words on the list	The middle 7 words on the list	The last 7 words on the list
Mean number of words recalled accurately (out of 7)	3.7	1.1	4.2

Using your knowledge of the effects of serial position on memory, explain the results of this study.
[4 marks]

Turn over for next question

0 3.1	What is meant by reconstructive memory?	[2 marks]
0 3.2	What is meant by effort after meaning?	[2 marks]
0 3.3	Briefly evaluate the theory of reconstructive memory.	[4 marks]

0 4	Discuss two or more factors that affect the accuracy of memory.	[12 marks]

Section B

		Perception	
	Answer all	questions in this section.	
0 5	Briefly explain the difference	between sensation and perc	ception. [2 marks]
0 6	Decide if the depth cues give binocular cue. Tick the correct box next to e		a monocular cue or a
	Name of cue	Monocular	Binocular
	Convergence		
	Occlusion		
	Relative size		
	Retinal disparity		
			[4 marks]
0 7 . 1 What is meant by a visual illusion?			

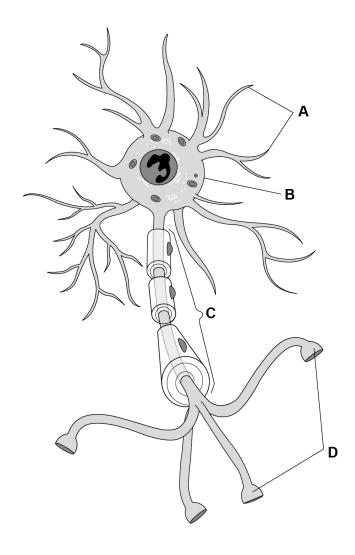
0 7.2	Briefly outline size constancy in perception.	[2 marks]
0 7.3	Explain how the Ames Room uses size constancy to affect perception.	[3 marks]
0 8	Explain the role of motion parallax in everyday perception.	[4 marks]

0 9	Samil is talking to a friend.	
	'In our psychology lesson today, the teacher showed us the Ponzo illusion. thought that the top line was longer than the bottom line. I had to measure to be sure they were the same length.'	I really both lines
	Briefly describe and evaluate Gregory's constructivist theory of perception.	
	Refer to the comments made by Samil as part of your answer.	[9 marks]
	Extra space_	
	Extra opace	

Section C

Biopsychology

Answer all questions in this section.



In **Figure 1**, four components of a motor neuron have been identified by the letters A, B, C and D.

Complete the table below with the correct name of the part of a motor neuron in the box next to the appropriate letter.

	Name of part of a motor neuron
Α	
В	
С	
D	

[4 marks]

1 1	Describe the process of synaptic transmission.	
	As part of your answer refer to both excitation and inhibition.	[6 marks]
	Turn over for next question	

1 2.1	Matti has recently had an accident in his car in which his brain was injured. Matti now has difficulty in understanding what other people are saying when they speak to him.		
	Use your knowledge of localisation of function to explain Matti's language dafter his injury.	ifficulty	
	and many.	[3 marks]	
1 2 . 2	Matti's doctor used an fMRI scan to investigate his language problems.		
	Briefly evaluate the use of fMRI scans to identify brain functioning.	[3 marks]	
	Turn over for next question		

1 3	Maiya was walking home from school in the evening. She could hear footsteps behind her. Maiya's breathing became faster and her heart rate increased. She had a dry mouth and started feeling sick.	
	She then heard a voice shout, 'Maiya, It's me, Danni! Wait for me and we can home together.'	walk
	As Maiya turned round and recognised her friend, she began to feel calm and breathing and heart rate started to slow down.	her
	Use your knowledge of the autonomic nervous system to explain Maiya's beh	aviour. 6 marks]
1 4	Briefly evaluate Penfield's study of the interpretive cortex.	3 marks]

Section D

Research Methods

Answer all questions in this section.

A psychologist wanted to see if learning is affected by the way the information is presented.

The psychologist prepared two booklets which were like small textbooks. Booklet A contained only written information. Booklet B contained the same written information but there were diagrams and pictures in the content too.

Twenty students, all aged 14 years took part in the study.

Condition 1: Ten students were given Booklet A

Condition 2: The other ten students were given Booklet B

All the students were told they had 7 days in which to learn the information in their booklet. At the end of the seven days of learning, all the students took the same test.

1 5	Identify the independent variable in the study. [1 mark]
1 6	Identify one extraneous variable the psychologist controlled in this study and explain why it was important to control this variable. [4 marks]

1 7	Identify and explain the experimental design used in this study.	[3 marks]
	Turn over for next question	

All the students in this study took the same test on the information they had learned from their booklets.

The results of the study can be seen in Table 2 below.

Table 2: the mean scores and ranges for Condition1 and Condition 2 in the learning study.

	Condition 1	Condition 2
	Booklet A – only written information	Booklet B – written information with diagrams and pictures
Mean score (out of 100)	63.3	75.6
Range	3	7

1 8	Write the mean score for Condition 2 to 2 significant figures.	[1 mark]

Turn over for next question

Refer to both the mean scores and the ranges in your answer. [4 ma	
[4 ma	
	'ks]
The never leaves are down some of students and 14 years in this study.	
2 0 . 1 The psychologist used a random sample of students aged 14 years in this study.	
What is random sampling? [1 m	ark1
[1 111	נאוג
2 0 2 Explain why this is an appropriate compling method for this study	
2 0 . 2 Explain why this is an appropriate sampling method for this study. [2 ma	rks]

2 1	The psychologist was given permission to carry out the study by the Head teacher in a local school.
	Identify one other group of people who need to give their permission for this study and explain how the psychologist could have dealt with this issue. [3 marks]
	-
2 2	The psychologist decided to conduct a follow-up questionnaire study by asking 10 students from the first study about how they usually learned information for tests. The questionnaire contained both open questions and closed questions.
	 Use your knowledge of research methods to explain: why the psychologist might have chosen to use a questionnaire in the follow-up study. why the psychologist chose to use both open questions and closed questions in
	the questionnaire. [6 marks]

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END OF QUESTIONS
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Candidate signature	I declare this is my own work.		

GCSE PSYCHOLOGY

Paper 1 Cognition and Behaviour

Thursday 21 May 2020

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.

For Examiner's Use		
Section	Mark	
Α	7	
В		
С	- 1	
D		
TOTAL		

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 100.
- Question 19 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.



8182/1

Section A

Memory			
Answer all questions in the spaces provided.			
Only one a	nswer per question is allowed, except where stated otherwise.		
For each qu	uestion completely fill in the circle alongside the appropriate answer,		
CORRECT METH	WRONG METHODS (S)		
If you want	to change your answer you must cross out your original answer as shown,	\bowtie	
	to return to an answer previously crossed out, ring the answer you now wis	h to select	
as shown.			
0 1	Which is the best example of information that would be stored as procedumemory?	ıral	
	Shade one box.		
		[1 mark]	
	A How many millilitres there are in a litre.	0	
	B How to play a piece of music on the piano.	0	
	C The colours used in the Italian flag.	0	
	D What happened on your first day at secondary school.	0	
0 2	Which of the following statements about short-term memory (STM) is true	?	
	Shade one box.		
		[1 mark]	
	A STM can hold information for up to 30 seconds.	0	
	B STM can store approximately 15 pieces of information.	0	
	C STM transfers information to long-term memory through attention.	0	
	D STM usually encodes information semantically.	0	



0 3	Evaluate the multi-store model of memory. [5 marks]
	Turn ever for the most exception
	Turn over for the next question

Turn over ▶



Describe Bartlett's 'War of the Ghosts' study.	[



0 5	Read the following information.
	A police officer is reading the statements of two eyewitnesses. Both statements describe the same robbery committed by one person in a local shop.
	The first eyewitness described the robber as being a male, in his late teens, wearing a red hoodie and not carrying a weapon.
	The second eyewitness described the robber as being a male with a facial scar, in his late-twenties, wearing a red T-shirt and carrying a knife.
	Use your knowledge of the theory of reconstructive memory to explain why each eyewitness gave different descriptions of the same robber. [6 marks]
	Turn over for the next question

Turn over ▶



0 6	Explain one weakness of the reconstructive theory of memory.	[2 marks]
)
	ធ	



You have been asked to investigate the effect of context on the accuracy of memory.
Describe how you would design an experiment to do this.
You need to include the following information in your answer:
 what you would ask participants to do and what data you would collect one extraneous variable that could affect your results and how you could control it the results you would expect to find from your experiment.
,
3
*

Turn over for Section B

Turn over ▶



Section E	3
-----------	---

		Perception	
	Answer all ques	tions in the spaces provided.	
0 8	Which two of the following are	e binocular depth cues?	
	Shade two boxes.		[2 marks]
	A Convergence	0	
	B Height in plane	0	
	C Linear perspective	0	
	D Relative size	0	
	E Retinal disparity	0	
0 9	Which is the best explanation	for the visual illusion known as the Ames ro	oom?
	Shade one box.		[1 mark]
	A Ambiguity		
	B Fiction		
	C Occlusion		
	D Size constancy	0	n'



1 0	Briefly evaluate Gibson's direct theory of perception.	[4 marks]
11,1	Sketch the Müller-Lyer illusion.	F4 1.5
		[1 mark]

Turn over ▶



11.2	Outline how psychologists would explain the Müller-Lyer illusion.	[3 marks]

1 2 Read the following information.

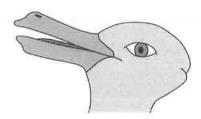
A teacher carried out an experiment to investigate factors that can affect perception. She divided her class into two groups: A and B.

Group A was shown nine different pictures of rabbits.

Group B was shown nine different pictures of ducks.

Both groups were then shown Figure 1 and were asked what animal they saw.

Figure 1



The results are shown in Table 1.

Table 1: The type of animal seen by participants

Animal	Group A	Group B
Rabbit	11	2
Duck	3	13
Other	1	0



1 2 . 1	Calculate the percentage of students in Group B who saw Figure 1 as a rabbit.		
	State your answer using two significant figures and show your workings.	[3 marks]	
	Workings:		
	Answer		
12.2	Which of the following is the correct fraction of Group A who saw Figure 1	as a duck?	
	Shade one box.	[1 mark]	
	A 1/3		
	B 1/4		
	C 1/5		
	D 1/6		
	Question 12 continues on the next page		

Turn over ▶



1 2 . 3	Use your knowledge of one factor that affects perception to explain the results in Table 1 (on page 10). [4	shown marks]
		•



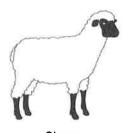
1 3

A psychologist carried out a laboratory experiment to see whether or not culture affects perception. He asked Marc and José to look at the three images shown in **Figure 2** and decide which image was the odd one out.

Marc was brought up on a farm and still lives in a rural part of France. Marc said, "The cat is the odd one out. The sheep and the grass go together best because sheep eat grass."

José was brought up in the Spanish city where he still lives. "No!" said José, "it's the grass. The cat and the sheep go together best because they are both animals."

Figure 2



Sheep



Grass



Cat

Outline how culture can affect perception. Refer to **both Marc and** José's comments in your answer.

[4 marks]

Turn over ▶



1 4	Explain one strength of using laboratory experiments in research. [2 marks]	Do not write outside the box
		25



Section C

Development		
	Answer all questions in the spaces provided.	
1 5	Sienna is planning her holiday. Which part of the brain plays a key role in this activity?	
	Shade one box only. [1 n	nark]
	A Brain stem	
	B Cerebellum	
	C Cortex	
	D Thalamus	
1 6	Matt is looking at a drawing of how castles were designed. Which one of the followearning styles is he using?	wing
	Shade one box only.	nark]
	A Fixed	
	B Growth	
	C Verbaliser	
	D Visualiser	
	Turn over for the next question	

Turn over ▶



1 7	According to Piaget's theory of cognitive development, during which stage will a child first start to look for something that has been hidden from view?
	Shade one box only. [1 mark]
	A Concrete operational
	B Formal operational
	C Pre-operational
	D Sensorimotor
18	Two teachers are having a conversation about a student. Mr Taylor: "I am really worried about Jana. She is not enthusiastic about learning during lessons and does not complete her homework. Her test scores are getting worse. What can I do to help her?" Mr Rogers: "Maybe you need to increase Jana's level of self-efficacy."
18.1	Outline one example of how Mr Taylor can use praise to improve Jana's learning. [2 marks]
18.2	Outline one example of how Mr Taylor can increase Jana's self-efficacy. [2 marks]



1 9	Read the following information.
	Mason and Kyle had a trial for the school football team but were not selected to play.
	Mason: "I'm such a loser. I never get chosen for anything. There is no point going to training. The coach obviously doesn't like me. There's always going to be someone more talented than me, it's so unfair."
	Kyle: "I am disappointed too but everyone gets rejected sometimes. The coach says I need to improve my fitness level so I am going to start running twice a week. Perhaps I will be selected next time."
	Use your knowledge of both negative schemas as an explanation for depression and Dweck's Mindset theory of learning to explain why these two students responded in different ways.
	Briefly evaluate both negative schemas as an explanation for depression and Dweck's Mindset theory.
	[9 marks]

Turn over ▶



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Turn over for the next question	2 0	Hughes investigated egocentrism in his 'policeman doll study'. Describe this study. [4 marks]
Turn over for the next question		
Turn over for the next question		
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		Turn over for the next question

Turn over ▶



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2 1	Evaluate Hughes' 'policeman doll study'	[5 marks]	box
			25



Section D

	Research Methods	
	Answer all questions in the spaces provided.	
	Which two of the following are commonly understood to be advantag studies?	es of case
\$	Shade two boxes.	[2 marks]
,	A The conclusions drawn are objective.	0
E	The findings can be easily generalised to the behaviour of other people.	0
(They are easy for others to replicate.	0
ι	They can be used to study rare and unusual behaviours.	0
E	They provide rich and detailed information.	0
t	Which one of the following statistics is calculated by finding the difference he smallest and largest values in a set of data? Shade one box only.	ence between [1 mark]
A	A Mean	0
E	3 Median	0
C	Mode	0
	Range	0
	Turn over for the next question	

Turn over ▶



2 4	Outline what is meant by independent groups and repeated measures.
	Discuss the strengths and weaknesses of both of these types of experimental design. [9 marks]



Turn over for the next question
Turn over for the next question

Turn over ▶



2 5

Total score:

Read the following information.

A researcher wanted to investigate whether physical exercise affected the mental well-being of firefighters.

He used stratified sampling to select 10 participants from a local fire department. He asked each participant to keep a diary for one month. Participants were asked to record the amount of exercise they completed each day. They were also asked to record a daily mental well-being score using the scale shown in **Table 2**.

Table 2: Mental well-being rating scale

Over the past day	All of the time	Often	Some of the time	Rarely	None of the time
I have felt confident.	5	4	3	2	1
I have felt relaxed.	5	4	3	2	1
I have dealt with problems well.	5	4	3	2	1
I have felt cheerful.	5	4	3	2	1

2 5.1	Outline one strength of using a stratified sample when conducting research.	[2 marks]
2 5.2	Give a definition of both qualitative and quantitative data.	
	Qualitative data	[2 marks]
	Quantitative data	



2 5 . 3	When collecting information about mental well-being, explain why collecting qualitative data rather than quantitative data may increase the validity of the d collected by the researcher.	ata 2 marks]
	Question 25 continues on the next page	

Turn over ▶



2 5 . 4 Read the following information.

At the end of the month, the researcher analysed the diaries completed by participants. He calculated the average number of minutes each participant exercised daily and the average mental well-being score for each participant for the whole month. The results are shown in Table 3.

Table 3: The average daily exercise and mental well-being score for each participant

Participant number	Average daily exercise (minutes)	Average mental well-being score
1	30	14
2	12	11
3	5	8
4	2	7
5	8	10
6	-14-	10
7	30	12
8	15	11
9	28	15
10	45	15

	Identify the mode for the average daily exercise scores shown in Table 3 .	[1 mark]
	Mode for average daily exercise =	
2 5 . 5	Calculate the median for the average mental well-being scores shown in Tak	ole 3. [1 mark]
	Median for average daily exercise =	



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Identify the type of corr well-being.	elation th	e resea	arcner n	as tour	ia bei	veen	exerc	ise a	and m	ienta
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A Negative correlation		>								
B No correlation										
C Perfect correlation	C	>								
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Surname	
Forename(s)	
Candidate signature	I declare this is my own work.

GCSE PSYCHOLOGY

Paper 1 Cognition and Behaviour

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.

For Examiner's Use		
Section	Mark	
Α	17,7	
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TOTAL		

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 100.
- Question 12 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.



8182/1

Section A

Memory

метогу						
	Answer all questions i	n the spaces provided.				
Only one answer per question is allowed, except where stated otherwise. For each question completely fill in the circle alongside the appropriate answer.						
CORRECT METHOD WRONG METHODS & • 🔊						
If you want to change your answer you must cross out your original answer as shown.						
If you wish as shown.		ssed out, ring the answer you now wish to select				
Oscar is learning both French and Spanish at school. Sometimes he gets confused and uses French words when he is speaking Spanish.						
	Which of the following factors best explains the problem Oscar is experiencing?					
	Shade one box.	[1 mark]				
	A Context	0				
	B False memory	0				
	C Interference	0				
	D Serial position	0				



0 2	What is meant by 'storage' as a process of memory?	[2 marks]
	Turn over for the next question	



0 3	Read the following information.
	Libby and Yasir are talking about how they plan to revise for a Biology test.
	Libby: "I will start with a list of the key terms I need to learn. I will look up what each one means in my textbook and write down a definition for each key term."
	Yasir: "I will draw pictures and diagrams of what I need to learn. This helps me to remember information."
	Outline the process of encoding. Refer to Libby and Yasir's conversation in your answer.
	[4 marks]
	



4	Describe and evaluate the multi-store model of memory.	[9 ma
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0 5	Bartlett investigated the idea that memory is an active process. He gave each participant a Native American Indian story called 'War of the Ghosts'. He then asked each participant to retell this story several times. He found that participants changed parts of the story when they retold it.
	Evaluate Bartlett's 'War of the Ghosts' study. [5 marks]



6	Read the following information.	out
	A researcher carried out a study into false memory. Each participant was shown five photos and asked what they remembered about these events from their childhood.	
	However, only four of these photos showed a genuine event from their childhood. The other photo showed a fake image of the participant on a hot air balloon ride. None of the participants had ever experienced a hot air balloon ride.	
6 . 1	Calculate what fraction of the photos shown to each participant were fake. [1 mark]	
6 . 2	The researcher had to choose the order in which to show a set of five photos.	
6 . 2	The researcher had to choose the order in which to show a set of five photos. Describe how the researcher could have used randomisation to decide the order. [3 marks]	
6.2	Describe how the researcher could have used randomisation to decide the order.	
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6].[2]	Describe how the researcher could have used randomisation to decide the order.	



Section B

	F	Perception
	Answer all questi	ons in the spaces provided.
0 7	Objects that are closer in your vaway.	visual field appear larger than those that are further
	Which one of the following cause	ses this?
	Shade one box.	[1 mark]
	A Convergence	
	B Height in plane	0
	C Linear perspective	0
	D Occlusion	0
	E Relative size	
0 8	Objects that are closer in your v further away.	visual field can cover part of another object that is
	Which one of the following cause	ses this?
	Shade one box.	[1 mark]
	A Convergence	0
	B Height in plane	
	C Linear perspective	
	D Occlusion	
	E Relative size	

Turn over ▶



	10		
0 9	What is meant by perception?	[2 marks]	Do not write outside the box



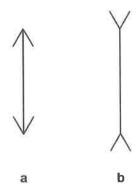
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Figure 1: The Müller-Lyer illusion



1 0 Read the following information.

Figure 1 shows the Müller-Lyer illusion. The two vertical lines labelled **a** and **b** are the same length but sometimes people incorrectly perceive that line **b** is longer than line **a**.

A psychologist investigated whether the environment in which people lived affected how they perceived the Müller-Lyer illusion. He tested two groups of participants; there were 50 participants in each group.

Group 1 lived in a city environment so were used to seeing square buildings around them. Group 2 lived in a rainforest environment so were not used to seeing square buildings around them.

He asked each participant if the two vertical lines were the same length.

The results of the study are shown in Table 1.

Table 1: The number of participants in each group who incorrectly perceived the Müller-Lyer illusion.

Group 1	Group 2
27	18



1 0 . 1	Calculate the percentage of participants in Group 2 who incorrectly perceived the Müller-Lyer illusion.
	State your answer rounded to one significant figure. Show your workings. [3 marks]
	Workings:
	Answer
10.2	What is the ratio of participants who incorrectly perceived the Müller-Lyer illusion in Group 1 compared to Group 2?
	Write this ratio in its simplest form. [2 marks]
	Question 10 continues on the next page

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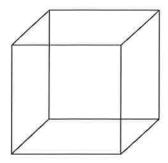


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1 0 . 3	Outline one conclusion about the participants' perception of the Müller-Lyer illusion that the researcher could draw from his results.		
	How can this conclusion be explained using Gregory's constructivist theor perception?	y of	
		[4 marks]	
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Figure 2: The Necker cube illusion



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Outline how psychologists v	would explain the Necker cube illusion	1.7
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1 2	Describe Gilchrist and Nesberg's study into how motivation affects perception.					
	Evaluate the research method used in this study.					
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25



Turn over ▶

	Section C	
	Development	
	Answer all questions in the spaces provided.	
1 3	Penagrah auggeste that nature plays a role in early brain development	
1 3	Research suggests that nature plays a role in early brain development.	
	Which of the following is a way that nature can affect brain development?	
	Shade one box only.	[1 mark]
	A. E. and a second of the seco	
	A Experiences with other people	
	B Genes	
	C Getting an infection	
	D Neglect	
1 4	Which of the following best describes the function of the cortex?	
	Shade one box only.	[4 mark]
		[1 mark]
	A Controls basic autonomic functions	
	B Controls cognitive processes	
	C Coordinates movement and balance	
	D Passes on information from the sense organs	



1 5	Read the following information.
	Megan and her dad are visiting a farm.
	Megan is very excited to see the animals and shouts, "Look at the little horse, daddy. It is so cute!"
	Her dad explains, "Actually it is a donkey, Megan. Although it looks very similar to a horse, a donkey has a thicker coat, longer ears and a shorter tail than a horse."
	Briefly describe Piaget's concept of accommodation.
	According to this concept, how will her dad's explanation affect Megan's understanding of horses? [4 marks]
	Turn over for the next question
	Turn over for the next question

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1 6	Read the following information. Four-year-old Ibrahim and his auntie go to a café for a drink. His auntie buys two cartons of apple juice which are identical in size. She pours Ibrahim's carton into a tall narrow glass. She pours her own carton into a short wide glass. Ibrahim says
	to his auntie "I have got more juice than you". Briefly describe Piaget's concept of conservation. Refer to Ibrahim in your answer. [4 marks]



1 7	McGarrigle and Donaldson investigated conservation in the 'naughty teddy study',				
	Describe and evaluate this study. [6 mark				
					
	Turn over for the next avertice				
	Turn over for the next question				



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1 8	You have been asked to compare the effects of using different learning styles to revise the structure of the brain. Describe how you would design an experiment to do this.	
	You need to include: the tasks participants would be asked to do to revise the structure of the brain using a verbaliser and a visualiser learning style one example of a standardised procedure that you would use and a justification for why this should be used one ethical consideration you would need to address and how you would deal with this. [6 marks]	



:= :=		
	Villingham has criticised the use of learning styles.	
E	Briefly outline his criticism of learning styles.	[3 marks]
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2 3

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Section D

			Researc	ch Methods		
		Answ	er all questions	s in the spaces provided.		
2 0	Whic	h of the follow	ving is most lik	ely to give secondary data?		
	Shad	le one box.				[1 mark]
	fa	avourite shops	3	e a questionnaire about their	0	
	ВС	collecting infor	mation already	published by high street retai	lers 🕒	
	СТ	he researche	r interviewing s	hoppers in a supermarket	0	
	D T	he researche	r observing par	ticipants in a shopping centre	0	
2 1	Which of the following sets of data is normally distributed? Shade one box only.				[1 mark]	
	A	mean = 24	median = 26	mode = 29	0	
	В	mean = 26	median = 26	mode = 26	0	
	С	mean = 29	median = 20	mode = 25	0	
	D	mean = 29	median = 26	mode = 24	0	



2 2	Read the following information.
	A researcher wanted to investigate whether the timing of the school day affected student attendance. The head teacher at a local school allowed him to carry out an experiment with all 190 Year 9 students over an eight-week period.
	In the first part of the experiment, the school day began at 8.30 am and finished at 3.30 pm for four weeks (the early start condition).
	In the second part of the experiment, the school day began at 10.00 am and finished at 5.00 pm for four weeks (the late start condition).
	The researcher recorded the total number of school days missed for Year 9 students during the first and second parts of the experiment.
22.1	Identify the independent variable in this experiment. [1 mark]
2 2 . 2	Identify the dependent variable in this experiment. [1 mark]
2 2 . 3	Write a null hypothesis that the researcher can use in this experiment. [2 marks]
	Question 22 continues on the next page



Table 2: Total number of days missed by 190 Year 9 students in the early and late start conditions.

	Early start condition	Late start condition
Total number of days missed	266	76

2 2 . 4	Table 2 shows the total number of days missed by 190 Year 9 students in the early
***************************************	and late start conditions.

Calculate the **mean** number of days missed by students in the late start condition.

Show your workings.

[2 marks]

Workings:		



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2 2 . 7	This study is an example of a field experiment.	
	Evaluate the use of field experiments in psychological research.	[5 marks]



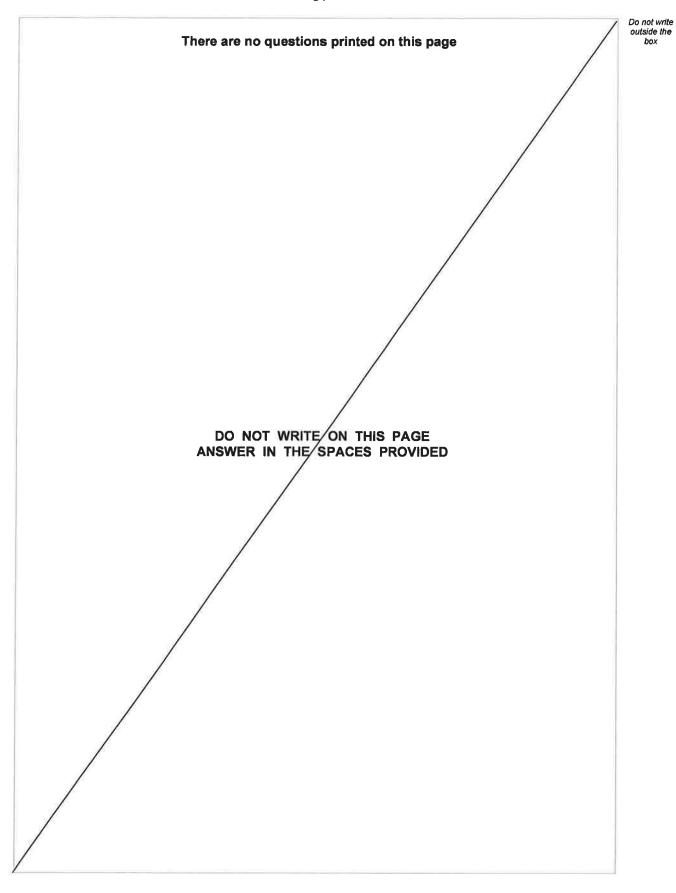
2 2 . 8	The psychologist wanted to interview a sample of the students in his experiment to find out how they felt about starting school earlier and later in the day. He thought about using either opportunity or systematic sampling to get his sample of students.
	Outline both opportunity and systematic sampling.
	Compare the use of these sampling methods using your knowledge of their strengths and/or weaknesses.
	[6 marks]
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Forename(s)	
Candidate signature	
	I declare this is my own work.

GCSE PSYCHOLOGY

Paper 1 Cognition and Behaviour

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.

For Examiner's Use		
Section	Mark	
Α		
В		
С		
D		
TOTAL		

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 100.
- Question 11 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.



8182/1

Section A

Memory

	,	
	Answer all questions in the spaces provided.	
Only one a	nswer per question is allowed, except where stated otherwise.	
For each a	nswer completely fill in the circle alongside the appropriate answer.	
CORRECT METH	HOD WRONG METHODS 🕲 💿 🕸 🍑	
If you want	to change your answer you must cross out your original answer as shown.	\triangleright
If you wish as shown.	to return to an answer previously crossed out, ring the answer you now wis	sh to select
0 1	Which two of the following statements about the reconstructive theory of recorrect?	memory are
	Shade two boxes.	[2 marks]
		[z marks]
	A Cultural and social expectations will not affect recall.	
	B Information flows through sensory, short-term and long-term memory.	0
	C Memory involves effort after meaning.	0
	D Memory is like a video recording.	0
	E The way we store and recall information is an active process.	0



0 2	Briefly evaluate the reconstructive theory of memory.	[2 marks]

Turn over for the next question



0	3	Read the following art	icle.
0	3	Read the following art	icle

TJ had a cycling accident which caused brain damage. He now suffers from some memory loss. He cannot recall what he ate or was wearing the day before. He remembers that London is the capital of England and that the Eiffel Tower is in Paris. TJ has also not forgotten how to play the piano and he can still ride his bike.

Use the article to identify **two** examples of procedural memory, **two** examples of semantic memory and **two** examples of episodic memory.

Write your answers in the correct boxes.

[6 marks]

	Procedural memory	Semantic memory	Episodic memory
Example 1			
Example 2			



3.2	Psychologists sometimes study unique individuals like TJ using a case studies in psychological research.	udy. [3 marks]
		[o marke]
	Turn over for the next question	



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ou	tside	e th
	ho	y .

0 4	You have been asked to investigate the effect of interference on the accuracy of memory.	
	Describe how you would design an experiment to do this.	
	You need to include:	
	 what participants would be asked to do a suitable hypothesis for your experiment the results that you expect to find. 	
	[6 marks	3]
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Describe and evaluate this study.	[6 ma
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Section B

Perception

	1	
	Answer all questions in the spaces provided.	
0 6	Gilchrist and Nesberg investigated the effect of motivation on perception. Which two of the following statements about their study are correct? Shade two boxes.	0
		[2 marks]
	A The control group perceived images of food to be brighter than the food-deprived group.	0
	B The independent variable was whether participants were deprived of food or not.	0
	C The participants were shown slides of four different meals.	0
	D The study used a repeated measures design.	0
	E The study was a field experiment.	0



0 7	Which one of the following is a description of occlusion?	
	Shade one box.	[1 mark]
	A Distant objects are seen or shown as being higher in the visual field compared to items that are nearer.	0
	B The larger objects in the visual field appear to be closer than the smaller objects.	0
	C Where an object covers part of another object in the visual field, it appears to be closer.	0
	D Where parallel lines appear to meet in the visual field, they are seen to be further away.	0

Turn over for the next question

0 8

Read the following information.

A researcher investigated the effect of emotion on perception. She used two groups of participants.

Participants in Group A had been identified as having a mild fear of spiders. Participants in Group B did not have a fear of spiders.

She showed each participant a photo of a spider. Then she asked them to estimate the length of the spider. She recorded the estimated length of the spider for each participant.

The estimated length of the spider, in millimetres, for each participant in Group A and Group B is shown in **Table 1**.

Table 1 The estimated length of the spider, in millimetres, for each participant in Group A and Group B.

Participant	Group A: mild fear of spiders	Participant	Group B: no fear of spiders
1	65	11	62
2	72	12	80
3	80	13	88
4	59	14	79
5	161	15	82
6	102	16	75
7	75	17	105
8	130	18	79
9	96	19	92
10	90	20	64
Total	930	Total	806



	The range of estimated lengths for the spider for participants in Group B wa	
	Use the information in Table 1 to calculate the range of estimates for partic Group A.	ipants in
	Show your workings.	[2 marks]
	Workings:	
		mm
	Range of estimates for participants in Group A	
8.2	The mean estimated length of the spider in Group A was 93 mm.	
	Use the information in Table 1 to calculate the mean estimated length of Group B.	he spider in
	State your answer using two significant figures and show your workings.	[3 marks]
	Workings:	
	Mean estimated length of the spider in Group B	mı



0 9	Read the following information.	
	Following eye surgery, Ava wears an eye patch to cover her left eye fo She notices that wearing the eye patch makes her clumsy and she often furniture as she moves around her house.	r one week. en bumps into
	Outline one binocular depth cue that affects how people judge distance.	
	Refer to Ava's experience in your answer.	
		[4 marks
	Extra space	



	y's constructivist theory of perception.	[4 n
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1 1	Bruner and Minturn investigated the effect of expectation on perception.	outside the box
	Describe this study.	
	Evaluate the research method used in this study.	
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Section C

	Development
	Answer all questions in the spaces provided.
1 2	Which one of the following is an example of a visualiser learning style? Shade one box. [1 mark]
	A Drawing a diagram B Listening to a podcast C Talking about an idea D Writing a list of key terms
1 3	What is meant by 'praise' in the context of learning? [2 marks]
1 4	50 teachers were asked whether they were more likely to praise student effort or student performance. 37 of these teachers said they were more likely to praise student effort. Calculate the fraction of teachers who were more likely to praise student performance. [1 mark]



I	Read the following information.
	Two doctors are discussing factors that influence the brain development of a baby before it is born.
	"The mother's genes play a key role," says Doctor Kumar.
	"I agree," replies Doctor Andersson, "but the quality of a mother's diet during pregnancy also affects how the brain develops. A healthy balanced diet is very important."
	Explain the role of nature and nurture on the brain development of a baby before it born.
	Refer to Doctor Kumar's and Doctor Andersson's comments in your answer. [6 mail





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Read the following information.
A survey of employees highlighted some differences between two restaurant businesses.
Zuppa is a business that focuses on employee performance and recruiting talented people. Risk taking is not encouraged and people who work at Zuppa often say they dislike challenges.
Bravas places a higher value on the hard work of employees and only recruits people who show willingness to develop new skills. It encourages risk taking, and employees who work in Bravas say they enjoy challenges.
Describe and evaluate Dweck's mindset theory of learning.
In your answer, refer to the mindset encouraged by both restaurant businesses in
this information. [9 marks]





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Section D

		Research Methods	
	Answer	all questions in the spaces provided.	
1 8	Which one of the following Shade one box.	owing is a feature of an interview?	[1 mark]
	B Directly asking pe C Investigating a sp		0 0 0
1 9	Which one of the fol Shade one box.	lowing is most likely to achieve a representativ	/e sample? [1 mark]
	A Opportunity	0	
	B Random	0	
	C Stratified	0	
	D Systematic	0	
		Turn over for the next question	





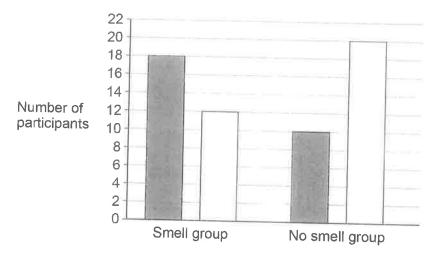
2 0	Name the descriptive statistic that is calculated by ordering the values in then selecting the middle value.	a set of data [1 mark]
2 1	Define what is meant by 'secondary data',	[2 marks]
		(z markoj



2 2	Read the following information.
	A psychologist investigated whether an environmental cue could influence participant behaviour.
	The environmental cue he used was smell.
	He asked 60 participants to sit at a desk and complete a questionnaire. When they had completed the questionnaire, he gave each of them a doughnut as a reward.
	30 of the participants completed the questionnaire in a room that smelled of cleaning product (the smell group). The other 30 participants completed the questionnaire in a room that did not smell of cleaning product (the no smell group).
	The psychologist recorded whether each participant cleaned their desk after eating their doughnut.
22.1	Identify the dependent variable and both conditions of the independent variable in this experiment.
	Write your answers in the correct spaces provided. [3 marks]
	Dependent variable
	Independent variable
	Question 22 continues on the next page



Figure 1 Bar chart to show the number of participants who did and did not clean their desk in the smell and no smell groups.



Key

Number of participants who cleaned their desk

Number of participants who did not clean their desk

2 2 . The results of this experiment are shown in Figure 1.

Use this information to complete the table below.

[2 marks]

	Smell group	No smell group
Number of participants who cleaned their desk	18	
Number of participants who did not clean their desk	12	



2 2 . 3	33.3% of participants cleaned their desk in the no smell group.	
	Calculate the percentage of participants who cleaned their desk in the smell group.	
	Use the information from Question 22.2.	
	Show your workings.	
	[2 marks	J
	Workings:	
	9/	
2 2 . 4	State whether the environmental cue of smell did or did not influence participant behaviour in this experiment.	
	Use the data in Figure 1 to explain your answer.	
	[3 marks]	1
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2 2 . 5	Name the experimental design used by the psychologist in this study.
	Explain your answer. [2 marks]
	Experimental design
	Explain your answer
2 2 . 6	Explain one weakness of using the experimental design you named in Question 22.5 . [2 marks]





Please write clearly in	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.

For Examiner's Use		
Section	Mark	
Α		
В		
С		
D		
TOTAL	60, 1	

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.



Section A

Memory
Answer all questions in the spaces provided.
Only one answer per question is allowed, except where stated otherwise.
For each question completely fill in the circle alongside the appropriate answer.
CORRECT METHOD WRONG METHODS © WRONG METHODS
If you want to change your answer you must cross out your original answer as shown.
If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown.
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
and approximately 50 seconds
D It stores facts about general knowledge and meanings
Which of the following is the correct definition of a 'false memory'?
Shade one box.
[1 mark]
A 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?	[2 marks]
	Turn over for the next question	



0 4 . 1	A researcher wanted to investigate the effect of context on the accuracy of memory.
	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]
3	
÷	
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0 4.2	The researcher considered different experimental designs when planning her experiment.	
	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	
į		

Turn over for the next question



Eval	luate the multi-store model of memory.	[4 mark
-		
-		
Des	scribe the method used by Bartlett in his 'War of the Ghosts'	study.
Des	scribe the method used by Bartlett in his 'War of the Ghosts'	study. [3 mar
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0 7	Read the following information.
	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]
	ī

Turn over for Section B



Section B

	Perception	
	Answer all questions in the spaces provided.	
0 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]
0 9	A The Ames room B The Kanizsa triangle C The Müller-Lyer D The Necker cube Kishan 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 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 correct recognises the strawberry yoghurt. Explain your answer.	lo gudee
	Sensation or perception Explanation	



	Describe and evaluate Gibson's direct theory of perception.
	[9 marks]
,	
4	
2	



1 1	Bruner and Minturn investigated the effect of expectation on perception.	
	Describe Bruner and Minturn's study.	[4 marks]
	Turn over for the next question	



10.4	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]									



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

Table 1

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

10.1	Name the type of data that is shown in Table 1 . [1 mark]
10.2	Calculate the number of participants who reported a temperature score between 6 and 10.
	Show your workings. [2 marks]
	Workings:
	Number of participants



1 0

Read the following article.

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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Turn over ▶



IB/G/Jun23/8182/1

Development				
	Answer all questions in the spaces p	rovided.		
1 3	Which of the following is a small structure at the bamovement and balance? Shade one box.	ase of the brain that coordinates [1 mark]		
	A Brain stem B Cerebellum C Cortex D Thalamus			
1 4	Which of the following is a true statement about pe	eople who have a growth mindset?		
	 A They avoid challenges B They believe ability will improve with practice C They feel threatened by the success of others D They ignore negative criticism that is useful 	0 0 0		



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]



1 6	Piaget's stage theory describes cognitive development.				
	Briefly outline the sensorimotor stage and the formal operational stage. [4 marks]				
	PA CONTRACTOR OF THE PARTY OF T				



Evaluate Piaget's	s stage theory of cognitive development.	[5 ma
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	Turn over for the next question	



1 8	McGarrigle and Donaldson investigated the development of conservation in the 'naughty teddy study'.			
	Describe this study.			
	Evaluate the research method used in McGarrigle and Donaldson's study.	[9 marks]		



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Section D

		Research Methods
	Answer a	II questions in the spaces provided.
1 9	Read the following info	rmation.
	as quickly as they cou	r, students were asked to run 100 metres on the running track ld before and after drinking 150 ml of an energy drink. The ne times taken to run 100 metres for each student.
19.1		eriment used in this study.
	Shade one box only.	[1 mark]
	A Field	
	B Independent groups	
	C Laboratory	0
	D Matched pairs	0
	E Repeated measures	0
		design used in this study.
	Shade one box only.	[1 mark]
4	A Field	
ı	B Independent groups	
	C Laboratory	
	Matched pairs	0
E	Repeated measures	



Explain one difference between primary and secondary data.	[3 mark
Turn over for the next question	9



2 1 Read the following information. 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 . Explain one weakness of using a stratified sample when conducting research. [2 marks]



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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]

rkings:	
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Question 21 continues on the next page



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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		
VIIOMEI		



	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 2

Question 21 continues on the next page



2 1 5	Sketch a frequency table the researcher and their assistant can use to collect information about the types of learning activity participants do during study lessons.	
	Include two categories of behaviour about types of learning activity in your frequency table.	
	Do not include 'chatting to friends' and 'completing work' as categories of behaviour [4 mark	sl
	[· · · · · · · · · · · · · · · · · · ·	اد
2 1.6	The psychologist and their assistant had high interobserver reliability in their	
	- Secondition study.	
	Define what is meant by 'interobserver reliability' in observational research. [2 marks]	
-		



2 1 . 7	From the results of the observation, the researcher realised that students spent more time chatting to friends during study lessons than they had estimated on the questionnaire.		
	Briefly evaluate the use of questionnaires in psychological research.		
	In your answer, refer to the questionnaires about the use of study lessons that the sixth form students had filled in. [5 marks]		
		2	

END OF QUESTIONS



There are no questions printed on this page DO NOT WRITE ON THIS PAGE ANSWER IN THE SPACES PROVIDED



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