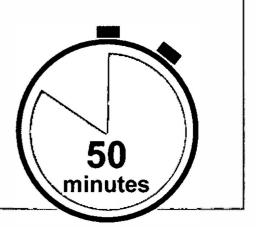


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## Computer Science General course Externally set task 2018



Satisfactory sample

Student number: In figures

In words



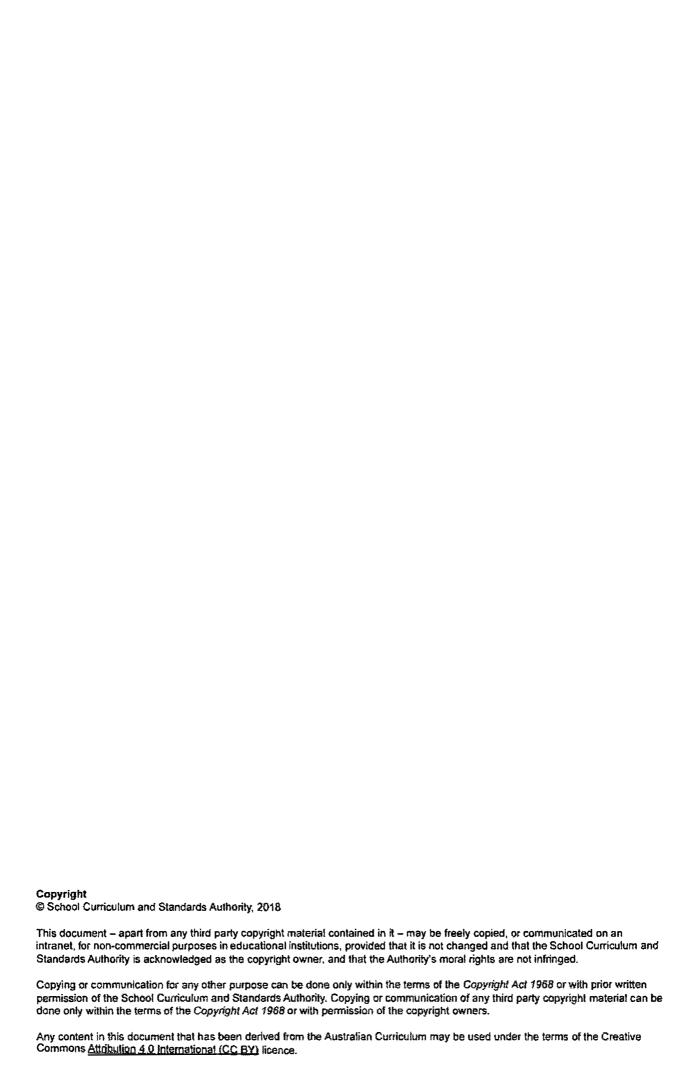
## Before starting this task Check that you have:

- black or blue pen, 2B pencils
- sharpener
- eraser
- highlighters
- correction fluid/tape.

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HPRM 2018/43724v2





3

COMPUTER SCIENCE GENERAL

Total time for the task:

50 minutes

Total marks:

41 marks

Weighting:

15% of the school mark

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Question 1 (6 ma	rks)
Describe the function of the components of the central processing unit listed below.	
stones reports from the run and feeds to the  is alot faster form of tempors nemore, helps  speed up processing	
Arithmetic logic unit:  Deals with bogical franctions, adding, sult  MNT uplainy Dorg	rasts
Program counter:  settives and gives Data an adverse of the  cogistic and All	

**Question 2** 

(b)

(5 marks)

(a)	A computer user has discovered that their printer is not working and calls a technician for assistance. Outline <b>two</b> steps the technician might advise the computer user to take to troubleshoot the problem. (2 marks)
	One: Observe and compare what is huggering
	to what should be hypering and
	then explain it
	Two: check all hardward is in correct order.
	all plags are where they ned to be and
	all intercepts are fall

Explain the process of troubleshooting a computer hardware faul	lt. (3 marks)
convert what :5 huppaping to u	hes rent de
happen what is happening to a happen wheel all seek hard works connected from system a check for proper software family	ware is
property connected, run system a	inalysia to
check for voper software fane	61101
· · · · · · · · · · · · · · · · · · ·	
11.112 1112	

Question 3 (11 marks)

The ABC Gymnasium business uses the spreadsheet below to monitor its memberships Refer to this spreadsheet to answer the questions that follow.

П		<u> </u>											_	_			
			Д П				2011/2011	<b>∀</b>	T B		4 ↑						
ᅶ		Yearly Membership	009	099	640	099		2560	640		4	*****	_			-	_
ſ		Fees Paid	009	22	160	) 55	_										
-		Yearly Date of Birth Payment Type Fees Paid, Membership	Yearly	Monthly		Monthly											
I	di	Date of Birth	8/03/2000	0413654981 5/09/2001	16/02/1999	2/01/2000											911-7-2
ပ	<b>BC Gymnasium Membership</b>		0415653212	0413654981	0416632325	0456213986						\		· .			
iL.	ium Me	Suburb State Postcode Phone	6104	6018	0009	9509											
Ш	nas	State	W	۸	×	۸											
٥	; Gym	Suburb	Belmont	Gwelup WA	Perth	Midland							L.				
ပ	ABC	Street	12 Harrison Road Belmont WA	900 West Road	78 Smith Road	56 Jorge Street							Frequency	12	7	1	
В		. Sитате	Smith	Jones	Robbins	Benns							Fees	25.00	160.00	00'009	
4		Firstname	Joe	Bill	Jenny	Abby		Total Fees	10 Average Fees	11 Total Number	of members		13 Payment type	14 Monthly	15 Quarterly	Yearly	
Z	7	က	4	2	9	7	8	O	5	Ξ		12	13	4	15	16	17]

	Write the function required to total all the fees in cell K9, labelled A on the spread $= 51014(44.547)$	adsheet (2 mar
	Write the function required to average all the fees in cell K10, labelled B on the spreadsheet. $= AVERAGE(KY; K7)$	(2 mai
	Write the function required to count the number of Yearly Memberships in cell knowledge on the spreadsheet.  = COUNT (KI), KY-K7)	(11, (2 ma
	Write the function required to lookup the Fees Paid based on the Payment Type cell J6, labelled D on the spreadsheet.  = VLOOLUP: (J6, JB\$/4:\$C\$/6] TRUE)	e in (3 ma
		/2 ma
	Describe how the table labelled F on the spreadsheet is used.  IS used us a look up yide so  can refer to it with a formula an  it refers the required iffor easer to a  if fees increase.	(2 ma
,	it repaired the required Aforeuser to a	hairy

Question 4 (8 marks)

Refer to the data in the table below and answer the questions that follow.

**Home Contents List** 

Room/Area	Item	Make/Model	Nimber	Date	Estimated
(	description			purchased	current value
Living room	Coffee table	unknown	none	01/07/2017	\$75.00
bedroom	Glass sculpture	local artist	none	10/04/2009	\$300.00
Kitchen	Microwave oven	Smeg	VY1564-56-621	15/08/2011	\$200.00
Living rom	Television	PI	90123908NBG	02/04/2016	\$1500.00
Living room	Lounge suite	Cosy	none	08/05/2014	\$1500.00
Kitchen	Fridge	Westinghouse	2514POL	24/12/2005	\$1000.00
Bedroom	Bed	unknown	none	13/02/2015	\$500.00
Total		V 0.5			\$5075.00

	sue: Multiple user also	
Exp	eplanation: un Anthritish personal hove acts  the data allowing then is that  white makes their data unsicare and  its insegrity.	055 kg
	While a die Wheel I was undiene and	1000 in
£	MAND MAKE ME AGRA WISH WE WIN	Wrypp
<u></u> .	its indegrity.	
		2.22
-		**************************************
·		Onlease
3		-8:
1.1.		*****************
	entify one data redundancy issue with the data and explain why it is an	issue. (4 mai
Iss	sue: 12 gasel, 10ms	
Ex	xolanation: YOU graft reffering to the same	e plate
	1 1 con 1 of and it waster to see	Naule
L	Con year rave pass product of sep	1. 1100
_/	herding muling it confusing and all	dungono
	could have a senerale rathe for the	1 100A
	and all ilm to that then med	:4 0
	and add all that by the stall from	
	1 11 6 6 1/2	
_	sale like for the non one	
	explanation: You are reflering to the same but some a separate table for the good add all item to that they must sake for the sale when for the norm one	

Question 5 (11 marks)

A pet shop would like you to design a database for its products. Data for two of the products it sells is shown below. Use this information to answer the questions that follow.

Code:

Dogbed104

Product:

Pied dog bed

Description: Sheepskin dog bed -

Medium size

Quantity:

8

Cost Price:

\$15.00

Vendor:

Better Beds for Pets

Code:

Catbrush89

Product:

Jones cat brush

Description: Rounded cat brush

for long hair

\$3.00

Quantity:

9

Cost Price:

Vendor:

Jones Brush Supplies

Complete the table below by listing the fields required to design the database for the two (a) products and the data type for each field. (6 marks)

Field	Data type
10	Short text
Rode	short text
Product	shorttext
Duscription	Short Jest
Quantity	Numeric
cost price	Numeric carrons
Vend or	Short feat

(b)	Identify the field in the table that you would use as a primary key in the databa	se.
		(1 mark)
(c)	Write a query to list all the Cat products that would be stored in the database.  [Julia: Per Shop Products]	(3 marks)
	cuteria: * cat*	
(d)	State the function of a primary key in a database.  Soverell dufa a spaif & refrance for the latter before the second of the latter.	(1 mark)
	se at the better	