



MINISTRY OF EDUCATION, SINGAPORE
in collaboration with
CAMBRIDGE INTERNATIONAL EDUCATION
Secondary Education Certificate

G1 COMPUTING

K127/01

Paper 1 e-Examination

For examination from 2027

SPECIMEN E-EXAMINATION

1 hour 15 minutes

INSTRUCTIONS

Answer **all** questions.

When instructed to start the examination, click the **START** button below.

At the end of the examination, click **SUBMIT**.

© Cambridge University Press & Assessment & MOE 2026

Copyright acknowledgements

Questions 15, 16, 17 and 18 © Creative Commons Attribution-ShareAlike 2.0 license;
<https://creativecommons.org/licenses/by-sa/2.0/>

Section A

1 Which unit of data is the smallest?

- A bit
- B byte
- C kilobyte
- D megabyte

[1]

2 Which type of device is a webcam?

- A a calculating device
- B a storage device
- C an input device
- D an output device

[1]

3 What is **not** a feature of a graphical user interface?

- A icon
- B mouse
- C pointer
- D window

[1]

4 What is used to pay for items in a shop?

- A electronic price label
- B information kiosk
- C motion detector
- D self-checkout counter

[1]

5 What is an example of malware?

- A anti-virus
- B cookie
- C firewall
- D worm

[1]

6 Which feature can be used to automatically change one word to another throughout a document?

- A copy and paste
- B find and replace
- C rotate and flip
- D select all

[1]

7 Which statement best describes a page footer?

- A It always contains the page number.
- B It is a border around the page.
- C It is an area at the bottom of every page.
- D It is an area at the top of the page.

[1]

Use the spreadsheet to answer **Questions 8, 9 and 10.**

	A	B	C	D
1	computer shop sales			
2				
3	item	price	number sold	total
4	laptop	\$629.00	12	\$7,548.00
5	surface	\$749.00	17	\$12,733.00
6	charger cable	\$49.00	5	\$245.00
7	external SSD	\$45.00	23	\$1,035.00
8	webcam	\$25.00	12	\$300.00
9				\$21,861.00

8 Which format has been applied to cells **B4:B8**?

- A** currency
- B** date
- C** number
- D** percentage

[1]

9 Which function should be used in cell **D9**?

- A** AVERAGE
- B** COUNT
- C** MAX
- D** SUM

[1]

10 Which cells would be updated if the price of a webcam was changed to \$27.50?

- A** **A8** and **C8**
- B** **A8** and **D8**
- C** **C8** and **D9**
- D** **D8** and **D9**

[1]

11 Which cells were used to create this chart?



A A3 to A8 and C3 to C8

B A3 to A8 and D3 to D8

C A3 to C8

D A3 to D8

[1]

12 Which statement about graphics is true?

A Raster graphics are composed of individually coloured pixels.

B Raster graphics can be resized without loss of detail.

C Vector graphics **cannot** be exported as raster graphics.

D Vector graphics are saved in BMP or JPEG format.

[1]

13 What is an example of a media element?

A presentation

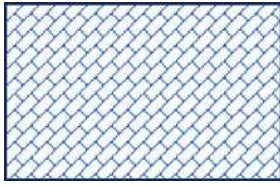
B storyboard

C video

D website

[1]

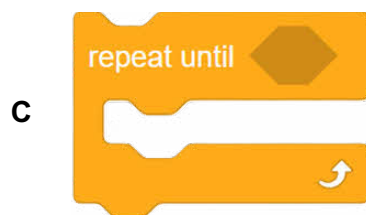
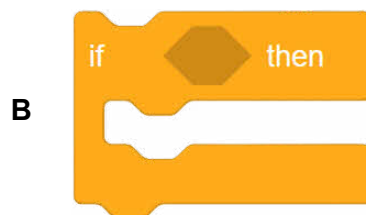
14 What is the name of the fill effect used in this shape?



- A gradient
- B none
- C pattern
- D solid

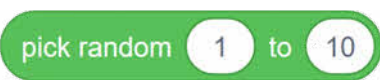
[1]

15 What is an example of a conditional loop?



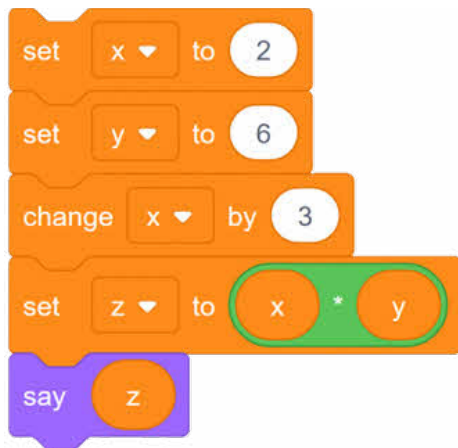
[1]

16 What is an example of a relational operator?

- A 
- B 
- C 
- D 

[1]

17 This script is executed.



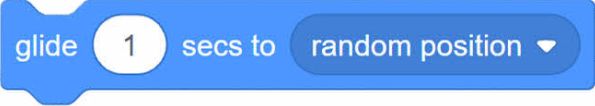
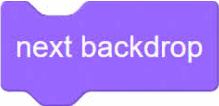
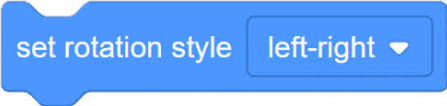
What is the output value?

- A 12
- B 18
- C 30
- D 36

[1]

18 Watch the animation.

Which Scratch block was used to make the animation?

- A 
- B 
- C 
- D 

[1]

19 Which statement describes a wide area network (WAN)?

- A It operates within a large geographical area.
- B It operates within a school building.
- C It operates within a single room.
- D It operates within a small geographical area.

[1]

20 Where are files stored in cloud storage?

- A hard disk on your computer
- B main memory
- C memory cards
- D remote servers

[1]

Section B

21 A computer system contains many components.

(a) Name the input device that is used to type in data.

..... [1]

(b) Name the part of a computer system that executes instructions.

..... [1]

(c) Name the type of storage that holds programs that are currently being executed.

..... [1]

(d) Name the device that creates physical copies of digital content.

..... [1]

(e) State **one** example of non-volatile storage.

..... [1]

22 Measures can be taken to prevent online attackers from accessing your files.

Four measures are shown in the table.

Select **one** box for each row to indicate whether the measure prevents online attackers from accessing your files.

	yes	no
backup	☐	☐
copyright	☐	☐
firewall	☐	☐
updated anti-malware	☐	☐

[2]

23 Give **three** features of a strong password.

1

2

3

[3]

24 Draw **one** line to connect each drawing tool to the most appropriate description.

drawing tool

duplicate

flip

group

resize

description

makes a copy of an object

enlarges or shrinks an image

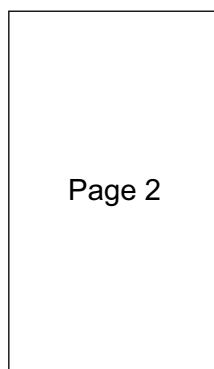
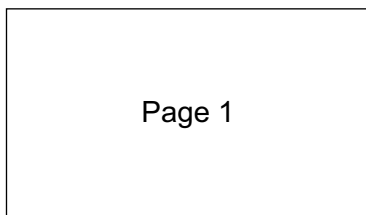
turns an object

joins several objects into one

reflects an object

[4]

25 Two pages in a document are shown.



(a) Identify the page orientation of Page 2.

..... [1]

(b) State the type of break used to allow different page orientations for Page 1 and Page 2.

..... [1]

26 State **two** ways that the global positioning system (GPS) is used in transportation.

1

2

[2]

27 Drag the correct terms from the option area to complete each sentence.

A network must be installed in a device to enable it to connect to a network located in a single building.

A is used to convert data from one format to another. It enables a connection between the device and the internet.

A is used to direct data between different networks on the internet.

Option area:

client	interface card	local area	modem
router	server	wide area	

[4]

28 Draw **one** line to connect each media term to the most appropriate description.

media term

description

frame

used to plan a presentation

slide master

creates a consistent style and layout

storyboard

crops an image to fit in a shape

an individual image in a video

[3]

- 29 A student plans to send several photographs by email.

State **two** benefits of compressing the photographs.

1

2 [2]

- 30 State **two** drawbacks of using cloud storage.

1

2 [2]

- 31 Data for teams in a football league has been entered into a spreadsheet.

Three points are awarded for a win, one point for a draw and no points for a loss.

Cell **E11** shows the value of the highest points awarded in column **E**.

	A	B	C	D	E
1	football league				
2					
3	name of team	number of wins	number of draws	number of losses	points awarded
4	team A	2	3	0	9
5	team B	3	1	1	10
6	team C	3	2	0	11
7	team D	1	2	2	5
8	team E	2	2	1	8
9	team F	4	0	1	12
10					
11			winning points		12

- (a) Identify the formula in cell **E4**.

..... [2]

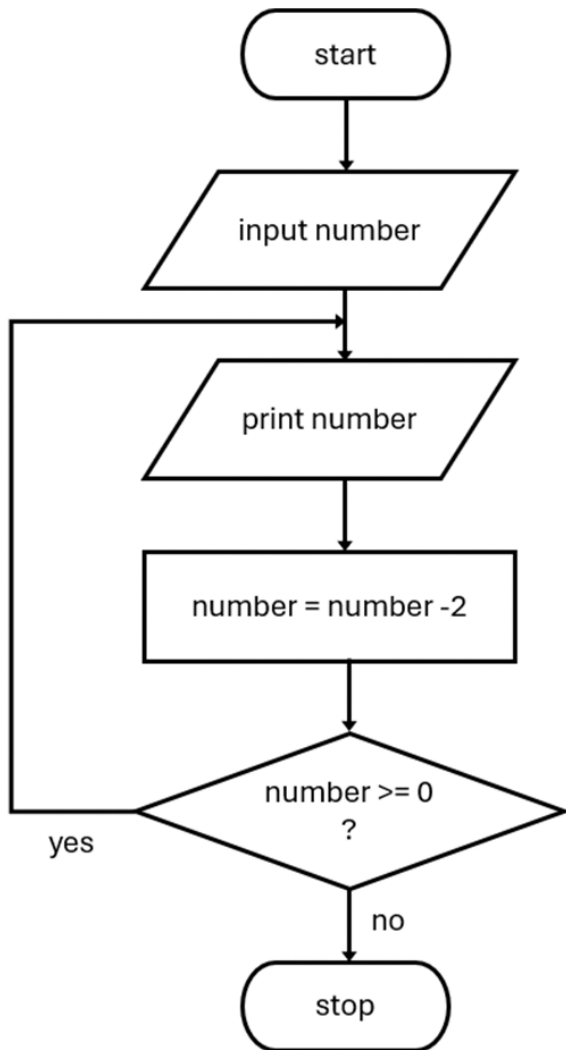
- (b) Identify the formula in cell **E11**.

..... [2]

- (c) Describe how the results of the teams can be ordered with the team that has the highest number of points appearing first.

..... [2]

32 The flowchart shows the steps involved in performing a task.



(a) State the purpose of a variable.

..... [1]

(b) Identify the name of the variable used in the flowchart.

..... [1]

(c) State the outputs when the number 7 is given as the input.

..... [3]

BLANK PAGE

Copyright acknowledgements

Question 15	© Creative Commons Attribution-ShareAlike 2.0 license; https://creativecommons.org/licenses/by-sa/2.0/
Question 16	© Creative Commons Attribution-ShareAlike 2.0 license; https://creativecommons.org/licenses/by-sa/2.0/
Question 17	© Creative Commons Attribution-ShareAlike 2.0 license; https://creativecommons.org/licenses/by-sa/2.0/
Question 18	© Creative Commons Attribution-ShareAlike 2.0 license; https://creativecommons.org/licenses/by-sa/2.0/

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (Cambridge University Press & Assessment) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

Cambridge International Education is the name of our awarding body and a part of Cambridge University Press & Assessment, which is a department of the University of Cambridge.