

If you do not, you may lose all the marks for this paper.

Mark	
Mark	

Graphic Communication

Duration – 1 hour and 30 minutes

Fill in these boxes and read what is printed bel	ow.		
Full name of centre		Town	
Forename(s)	Surname		Number of seat
Date of birth			
Day Month Year		Scottish candidate number	
D D M M Y Y			
Total marks – 60			
Attempt ALL questions.			
All dimensions are in mm.			
All technical sketches and drawings use 3 rd ang	le projection.		
You may use rulers, compasses or trammels fo	r measuring.		
Use blue or black ink.			
Before leaving the examination room you must	t give this book	let to the invigilator.	



a) What type of alignment is used in the poster above? (1 mark)

Text alignment - centre justified.

Text at top & logo at bottom.

b) Name the effect indicated by the letter A. (1 mark)

Depth - layering.

c) What effect does this type of layout technique cause? (1 mark)

To bring items forward - the product.

Make them stand out, highlight or draw focus.

d) Unity is used in the presentation above. Explain how it is achieved and the effect it gives. (2 marks)

Red background & red bottle creates a link.

White text & white element in bottle.

Simple & effective colour scheme linked to the product and branding.



e) What type of alignment is used in the layout above? (1 mark)

Text alignment - right justified.

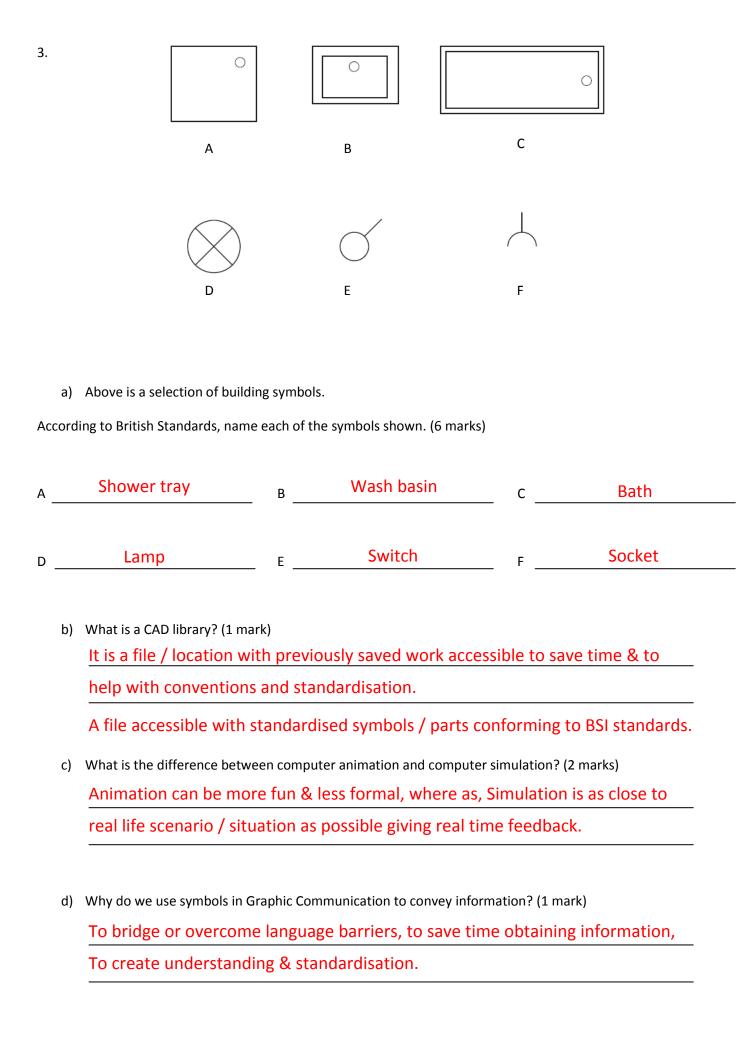
Header at top aligned to top of model (Graphics).

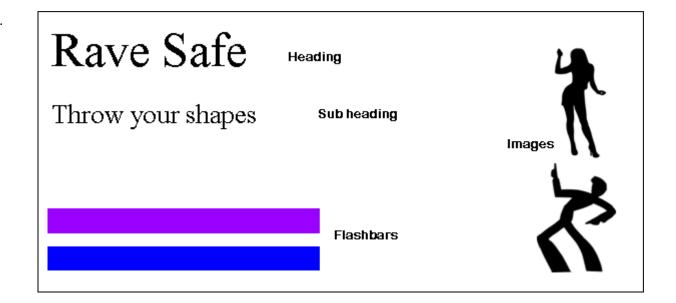
f) What type of effect is shown by the letter B? (1 mark)

Reversing.

how they communicated with their friends and when they felt more awake during the day.		
The answers they gave are shown below.		
QUESTION 1	QUESTION 2	
How do you communicate with your friends?	At what time during the day do you feel more awake?	
Texting – 1300 pupils	10% - 9am – 11am	
Social media – 1000 pupils	15% - 11am – 1pm	
Talking on the phone – 300 pupils.	25% - 1pm – 4pm	
Talking in person – 1500 pupils		
While playing video games – 500 pupils	10% - 4pm – 7pm 40% - 7pm – 11pm	
	40% - 7μπ – 11μπ	
Bar graph b) State one reason for using this type of graph. (2)		
Used to show how differe	ent items & figures compare.	
Based on the answers given to QUESTION 2, At what ti	ime during the day do you feel more awake?	
 State the best type of graph to use when repre mark) 	senting the information in the answers to QUESTION 2 . (1	
Pie chart		
d) State one reason for using this type of graph. (2	1 mark)	
Shows the share an individual are	ea has from a whole number or total.	

2. A group of school pupils were asked about their social habits. They were invited to answer questions on 2 topics;







This example shows the design of a flier for a nightclub event. The original images and ideas are shown in the top example.

- a) Name the DTP command used for the following areas. **Do not** name the same command more than once.
 - i) **Detail A** The effect added to the heading. (1 mark)

Font or typeface, Drop shadow.

ii) Detail B - The changes to the images. (1 mark)

Mirror / reflection.

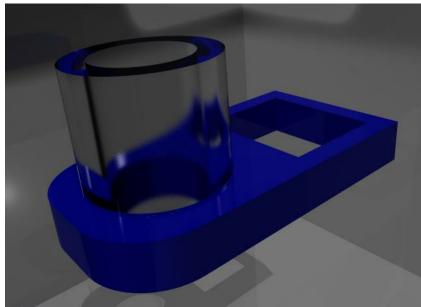
iii) Detail C - The format added to the sub heading. (1 mark)

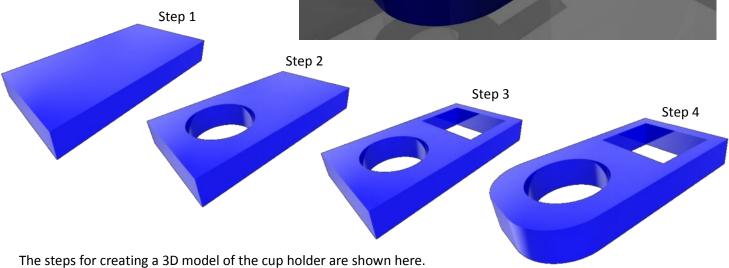
Text flow along a path.

b)) Give reasons for the following design features of the flier:				
	i) Why was the font for the heading changed? (1 mark)				
	Not interesting, very bland, old looking.				
	ii) Why was Detail A added to the heading? (1 mark)				
	To create depth to the page, make it standout.				
	iii) Why was Detail C added to the sub heading? (1 mark)				
	To make more interesting, to create the idea of movement linking to dancing				
	or beats of the music.				
c)	What is the reason the colours chosen for the flash bars? (1 mark)				
	To create a harmonious colour scheme with receding colours.				
d)	What is the purpose of using flash bars in the flier? (1 mark)				
	To create depth / layering to make the heading stand out - focus on the title.				



A cup in a cup holder that can be used at concerts is shown here.





a) State the 3D command used to create the hole at stage 2. (1 mark)

Extrude - subtraction.

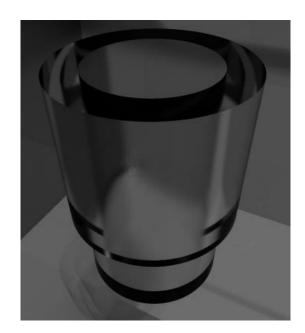
b) Describe how you would create the cup holder from step 3 to step 4. You can use sketches to support your answer. (3 marks)

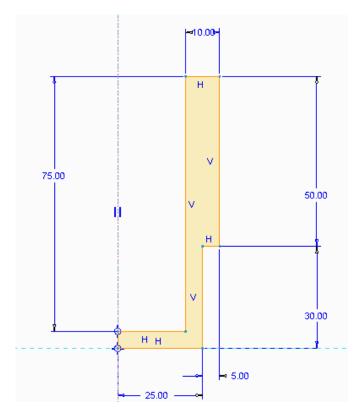
Look at the top surface,

Select fillet & select the relevant edges. Set fillet size to 30 mm. Finish sketch.

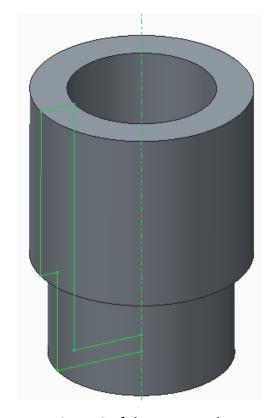
Sizes taken from drawings on page 9.

The cup was produced by using the command shown below.





Stage 1 of the command.

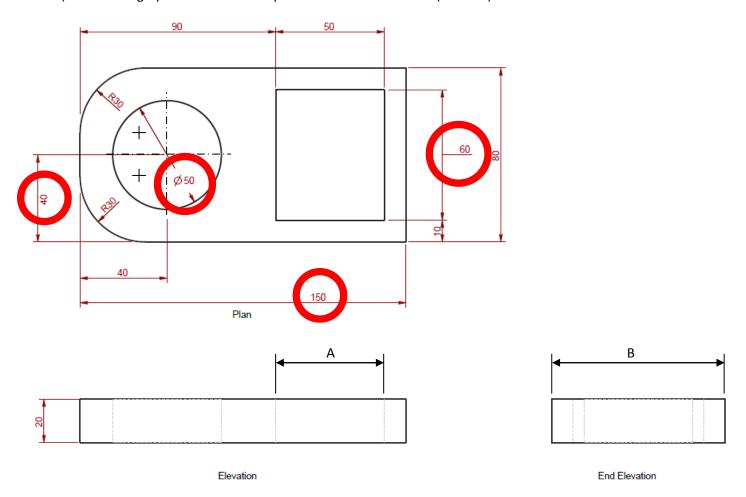


Stage 2 of the command.

c) State the name of this command. (1 mark)

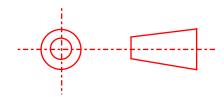
Revolve.

d) The orthographic views of the cup holder are shown below. (6 marks)



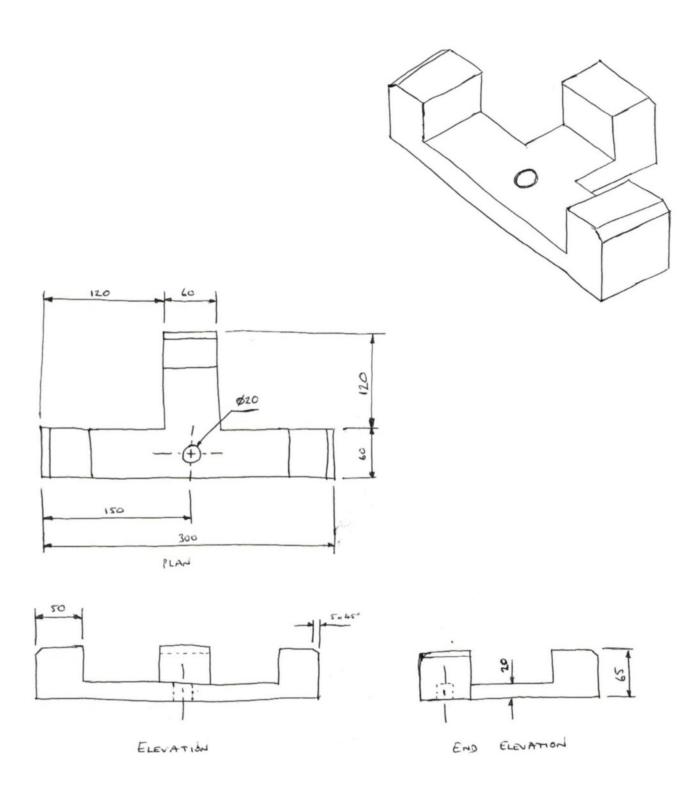
- i) State the size of dimension A 50 mm

 ii) State the size of dimension B 80 mm
- iii) There are 4 mistakes with the dimensions on the Plan of the cup holder. Circle each of these mistakes.
- e) Sketch the 3rd angle symbol in the space below. (1 mark)

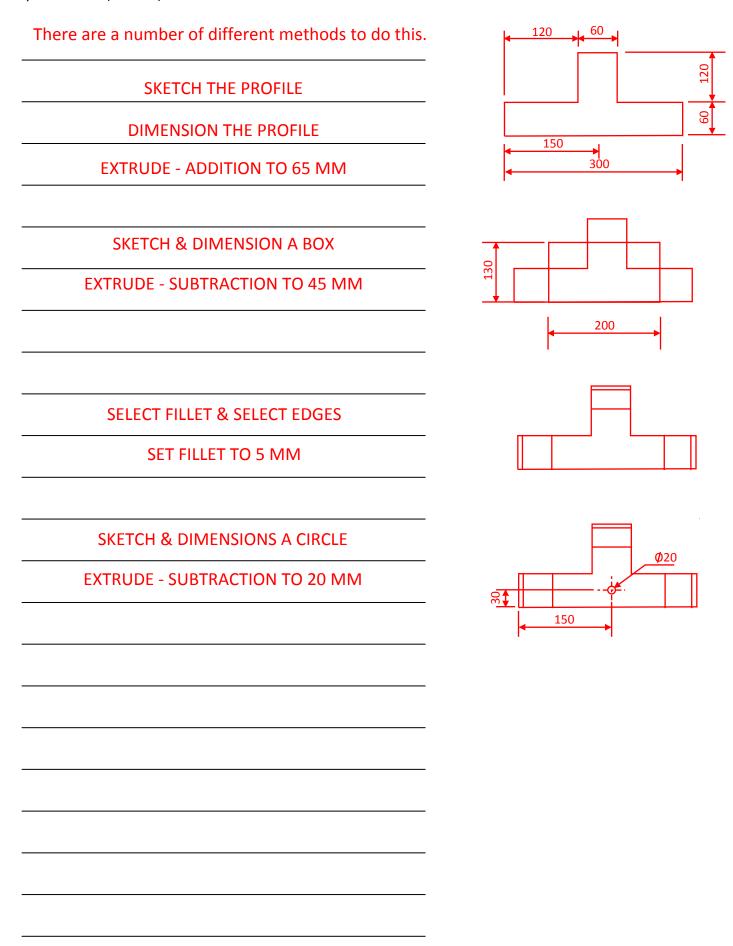


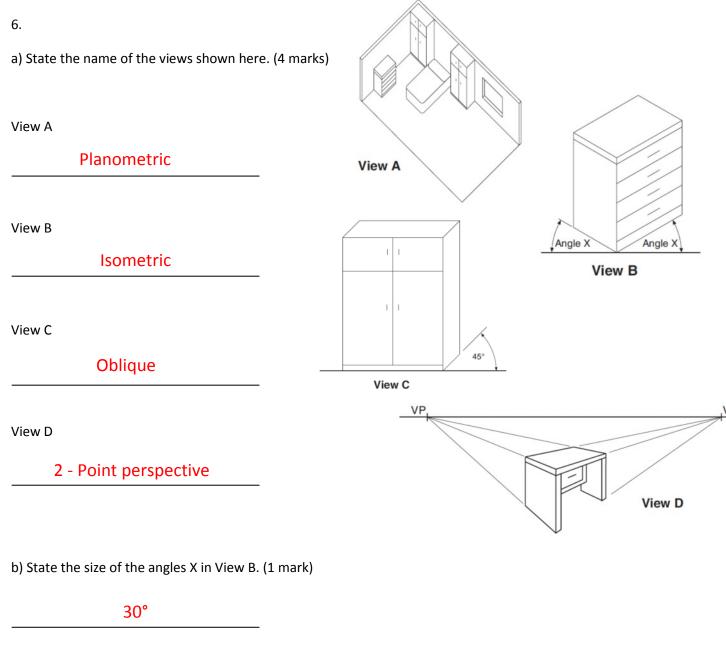
f) The company that produced the cup holder want to introduce a handle to help people carry 3 drinks at a time.

The preliminary sketches for one of the attachments that fit on top of this handle are shown below.



Describe how you would use 3D modelling software to create this handle. You may use sketches to help illustrate your answer. (6 marks)





c) What is meant by a scale of 1:2? (1 mark)

The drawing is half the size of the real item.

For every 1 mm on the drawing then multiply it by 2 to get the real size.

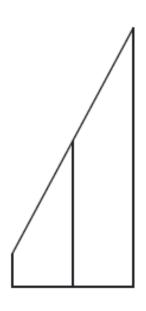
A pictorial view and a parts list of a cutting gauge is shown below. Item Number Title Material Quantity Stem 2 Fence Wood 3 Shoe Wood 1 Threaded Inserts Steel Wing Screw M6 x 25mm Steel Knife Blade 3 (a) State the name of this type of view. (1 mark) **Exploded** isometric

(b) State the name of part 2. (1 mark) **Fence** (c) State the material the knife blade if made from. (1 mark) Steel (d) State the part number of the wing screw. (1 mark)

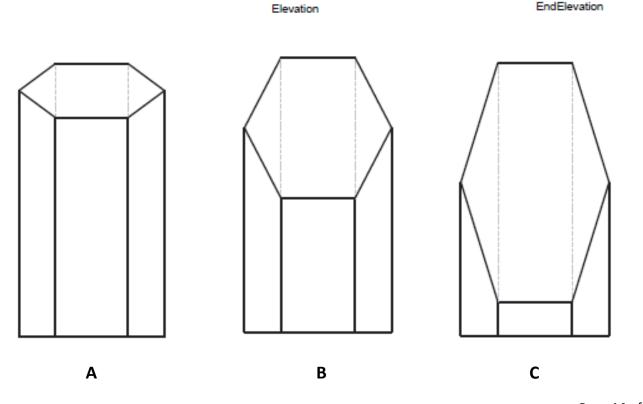
(a) Below are orthographic views of a cut hexagon with the elevation missing. State the correct view from the choices below. (1 mark)

Plan

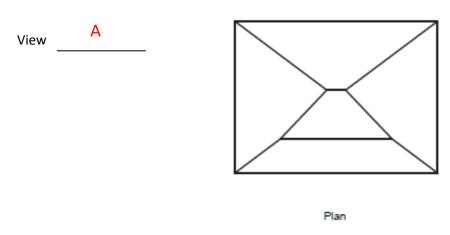
C View

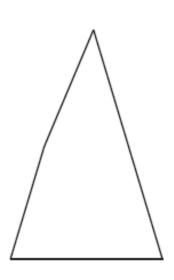


EndElevation

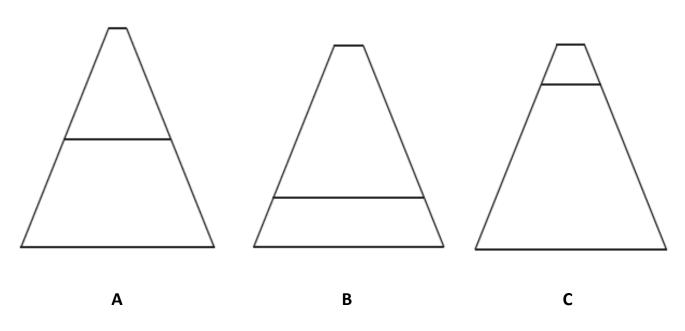


(b) Below are orthographic views of a cut pyramid with the elevation missing. State the correct view from the choices below. (1 mark)

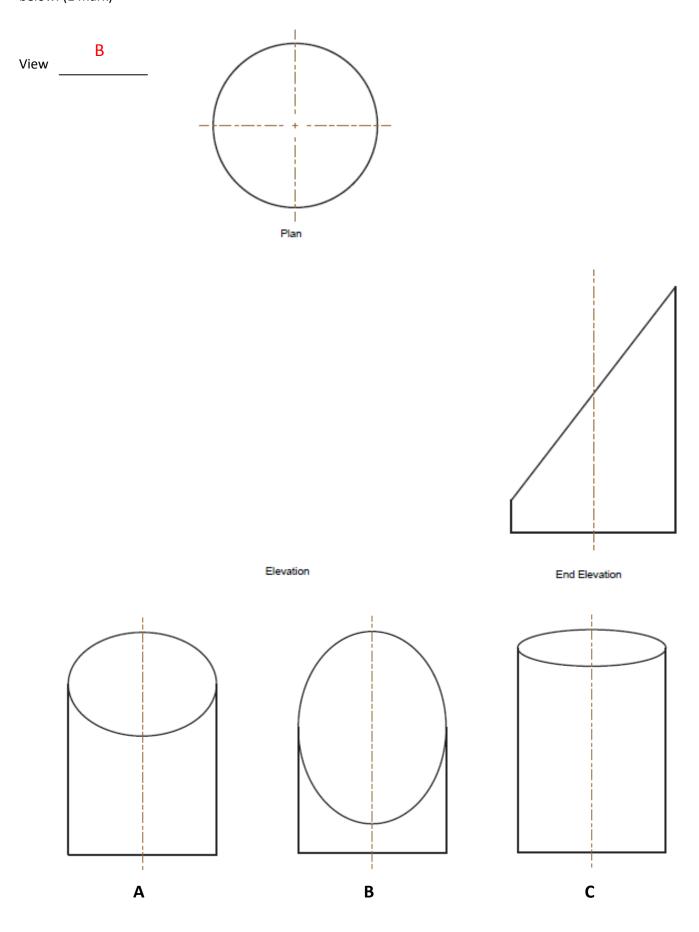








(c) Below are orthographic views of a cut cylinder with the elevation missing. State the correct view from the choices below. (1 mark)



[END OF QUESTION PAPER]