

Cambridge International Examinations Cambridge International General Certificate of Secondary Education

CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	
DESIGN AND	TECHNOLOGY		0445/02
Paper 2 Graphic Products		For Ex	amination from 2015
			1 hour

Candidates answer on the two inserted A3 Answer Sheets.

Additional Materials: Standard drawing equipment

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page and on the two Answer Sheets.

Do not use staples, paper clips, glue or correction fluid.

Section A

Answer **all** questions in this section (A1, A2 **and** A3). **Section B** Answer **one** question in this section (B4 **or** B5). You may use a calculator.

Draw your answers in the spaces provided on the answer sheets. All construction and projection lines must be clearly shown. All dimensions are in millimetres.

At the end of the examination, insert both sheets into this booklet. Do **not** punch holes in the cover and sheets or tie with string.

The total of the marks for this paper is 50. The number of marks is given in brackets [] at the end of each question or part question.

This document consists of an A3 cover booklet and 2 inserted A3 sheets.

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Section A

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Answer **all** questions in this section.

A shop selling sweets, chocolates and ice-cream is called LUCKY TREATS.

The design for the signboard is shown below.

			semi-circle	
			regular octagon 80 A/F	
	<		equilateral trian	gle
			<u>IREATS</u>	
A1	Coi by (mplet draw	te the full size view of the signboard in the space provided to the riging:	ght
	(a) (b) (c)	the a se equ	regular octagon 80 A/F emi-circle on the top of the octagon uilateral triangles on the sides of the octagon.	[5] [1] [2]
A2	(a)	Cor (i) (ii)	mplete the signboard for LUCKY TREATS by: adding the remaining letter drawing in the remaining part of the outline.	[3] [2]
	(b)	(i)	Name a suitable device for capturing the logo image for storage of a computer.	on
		(ii)	Give one benefit to the user of storing the logo image on a computer.	. [1]
				. [1]
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[1]				
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Centre Number	Candidate Number	Candidate Surname	Other Names	

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		Sheet 1 of 2

A3 Orthographic views of a marker post for the start line of sprint races are shown below. The marker post is made from expanded polystyrene.



Isometric view of Marker Post

SCALE 1:5

Section B

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Answer either question B4 or B5.

B4 A special box has been designed for children to fill with their selected sweets.



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	Sheet 2 of 2

base of box

B5 Competitors in athletic events are given drinking water in disposable paper cones.

Pictorial views of a carry tray made from 2 mm thick card and one paper drinking cone are shown below. Each tray is designed to hold two paper drinking cones. Each cone sits in a Ø10 hole in the base of the tray.



Draw full size in the space provided to the right:

(a) (b)	a front elevation of the card carry tray without the two holes the centre positions of the two holes with drinking cone C in position on the plan view	[3] [6]
(c) (d)	drinking cone C in position on the front elevation the correct size hole that is needed in the top surface of the carry tray to support the drinking cone in the one remaining position on the give	[9] 1
(e)	plan view describe how the circular holes could be cut out accurately in the prototype.	[4]
		[2]
(f)	Name a commercial process that would be used to produce the holes 10,000 trays.	in
		[1]



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