Answer ONE question only.

1 After use, hair straighteners are too hot to store.

A unit to support the hair straightener whilst cooling is required.

Data

- Market research has indicated that there is a potential demand for an initial minimum of 10,000 products.
- Fig. 1 is an illustration of a hair straightener giving sizes.

Theme: Electrical hair styling products. Focus Materials: Resistant Materials.

An illustration has been removed due to third party copyright restrictions Details: An illustration of some hair straightners with the following measurements: Length 250 Width 35 Widest jaw Opening 80

Fig. 1

	ALLOCA TION OF MARKS FOR PAPER 2524/02	
(a)	specification points.	[16]
(b)	initial ideas .	[38]
(c)	features suitable for development.	[8]
(d)	communication skills and techniques.	[10]
		[Total : 72]

All dimensions are in mm.

Where necessar y, calculators may be used.

A retailer wants to promote sales by supplying a free gift to customers who purchase a new T.V. or Sound System.

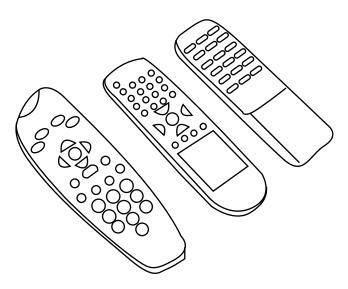
A product which will store up to five remote control devices is required.

Data

- Market research has indicated that there is a potential demand for an initial minimum of 25,000 products.
- Fig. 2 shows the maximum and minimum sizes of a typical remote controller.

Theme: Storage of small items.

Focus Materials: Resistant Materials/Textiles/Graphic Products.



	length	width	thickness
Minimum	150	40	18
Maxim um	200	60	25

Fig. 2

A company that specializes in camping equipment has identified a need for a modular collapsible table.

A table for 2 people that can be connected to identical tables is required.

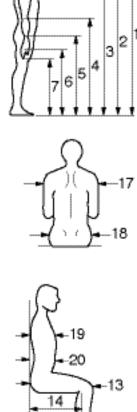
Data

- Market research has indicated that there is a potential demand for an initial minimum of 10,000 products.
- Fig. 3 gives appropriate anthropometric data.

Theme: Camping Equipment.

Focus Materials: Resistant Materials.

5th %le	Men 50th %le	95th %le	5th %le	Women 50th %le	95th %le
1625	1740	1855	1510	1510	1710
1515	1630	1745	1405	1505	1605
1315	1425	1535	1215	1310	1405
1005	1090	1175	930	1005	1080
840	920	1000	740	810	880
690	755	820	660	720	780
590	655	720	560	625	690
850	910	970	790	850	910
730	790	850	685	740	795
540	595	650	605	555	605
195	245	295	125	155	185
135	160	185	125	155	185
545	595	645	520	570	620
440	495	550	435	480	530
495	545	595	455	500	545
390	440	490	355	400	495
420	465	510	355	395	435
310	360	410	305	370	435
215	250	285	205	250	295
220	270	320	205	255	305
	%le 1625 1515 1315 1005 840 690 590 850 730 540 195 135 545 440 495 390 420 310 215	5th 50th %le 1625 1740 1515 1630 1315 1425 1005 1090 840 920 690 755 590 655 850 910 730 790 540 595 195 245 135 160 545 595 440 495 495 545 390 440 420 465 310 360 215 250	5th wile 50th wile 95th wile 1625 1740 1855 1515 1630 1745 1315 1425 1535 1005 1090 1175 840 920 1000 690 755 820 590 655 720 850 910 970 730 790 850 540 595 650 195 245 295 135 160 185 545 595 645 440 495 550 495 545 595 390 440 490 420 465 510 310 360 410 215 250 285	5th wile 50th wile 95th wile 5th wile 1625 1740 1855 1510 1515 1630 1745 1405 1315 1425 1535 1215 1005 1090 1175 930 840 920 1000 740 690 755 820 660 590 655 720 560 850 910 970 790 730 790 850 685 540 595 650 605 195 245 295 125 135 160 185 125 545 595 645 520 440 495 550 435 495 545 595 455 390 440 490 355 420 465 510 355 310 360 410 305 215 250 <td>5th %le 50th %le 95th %le 50th %le 1625 1740 1855 1510 1510 1515 1630 1745 1405 1505 1315 1425 1535 1215 1310 1005 1090 1175 930 1005 840 920 1000 740 810 690 755 820 660 720 590 655 720 560 625 850 910 970 790 850 730 790 850 685 740 540 595 650 605 555 195 245 295 125 155 135 160 185 125 155 545 595 645 520 570 440 495 550 435 480 495 545 595 455 500 390</td>	5th %le 50th %le 95th %le 50th %le 1625 1740 1855 1510 1510 1515 1630 1745 1405 1505 1315 1425 1535 1215 1310 1005 1090 1175 930 1005 840 920 1000 740 810 690 755 820 660 720 590 655 720 560 625 850 910 970 790 850 730 790 850 685 740 540 595 650 605 555 195 245 295 125 155 135 160 185 125 155 545 595 645 520 570 440 495 550 435 480 495 545 595 455 500 390



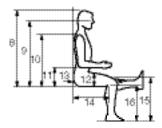


Fig. 3

4 Clothing accessor ies are difficult to store in a wardrobe.

A product or system to store either 50 men's ties or woman's silk scar ves is required.

Data

- Market research has indicated that there is a potential demand for an initial minimum of 50,000 products.
- The product should fit inside an existing wardrobe.

Theme: Bedroom storage.

Focus Materials: Resistant Materials/Textiles/Graphic Products.

A confectionary company is about to launch a new soft sweet called 'Geojellies' that come in different geometric shapes .

A dual pur pose container f or transpor tation and point-of-sale displa y, which represents the name of the sweets, is required.

Data

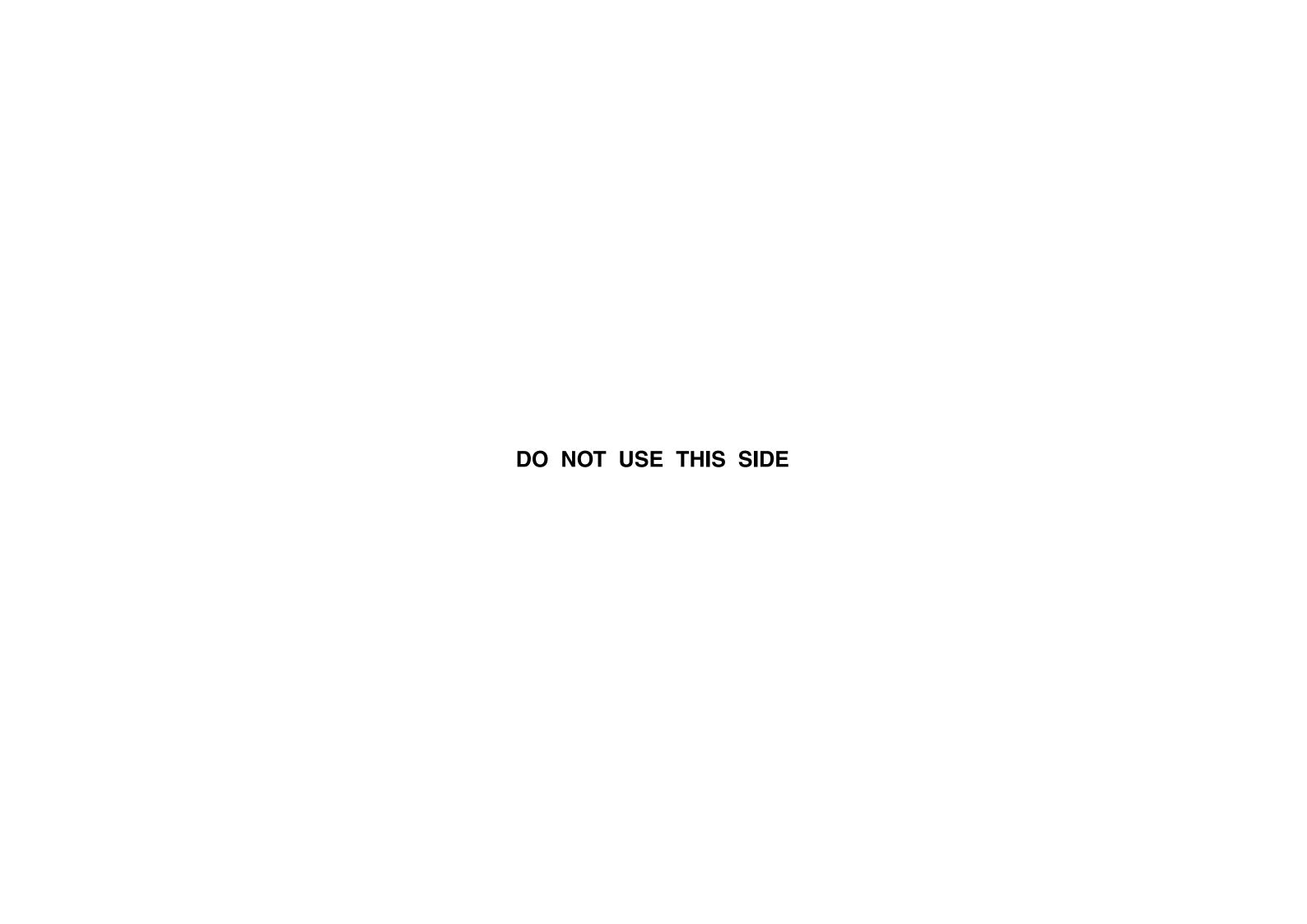
- Market research has indicated that there is a potential demand for an initial minimum of 10,000 products.
- The product should contain 48 of the packets shown in Fig. 4.
- Fig. 4 is a drawing of clear sweet packaging showing geometric shaped sweets.

Theme: Confectionery.

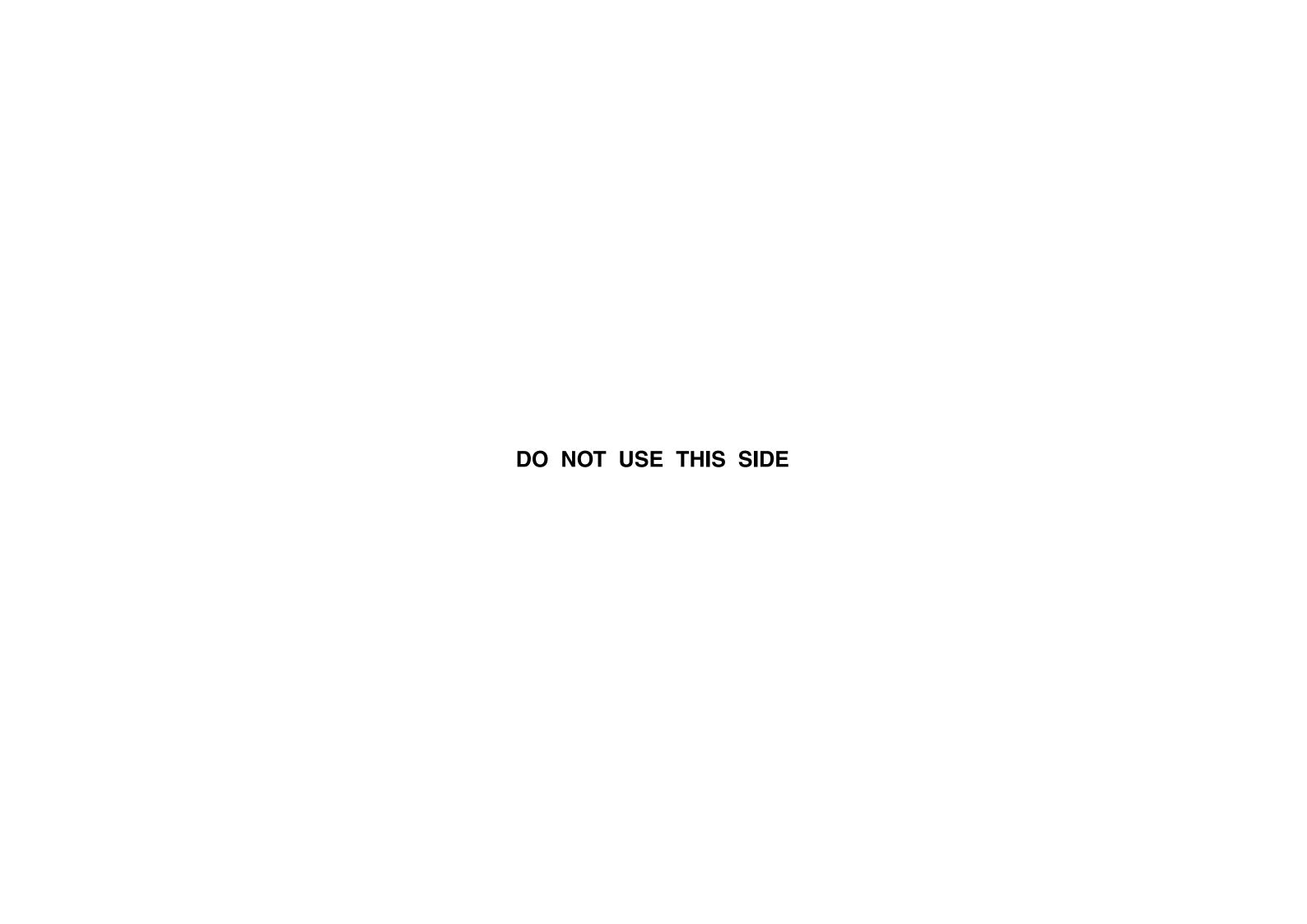
Focus Materials: Graphic Products.

An image has been removed due to third party copyright restrictions Details: An image of a sweet packet with geometric sweets

Fig. 4



	(a) A list of eight qualified specification points, directly related to the given situation, that initial ideas should meet. [16]	A3 SHEET 1 OF 4
FOR CANDIDATE USE ONLY		-
Circle the question number you are answering	2	
1 2 3 4 5	3	- -
		- -
	4	. .
	5	- -
DO NOT WRITE		DO NOT WRITE
IN THIS SPACE	6	IN THIS SPACE
	7	-
		- -
	8	- -
		FOR EXAMINER'S
		SP USE ONLY
524/02 PRODUCT DESIGN CAN	DIDATE NAME CANDIDATE NUMBER CENTRE NUMBER	3



A3 SHEET 2 OF 4

(b) Initial ideas:

Range of ideas. [10]

Design ideas relating to the functional aspects raised in your specification.

Quality of design thinking relating to the volume production and wider market issues.

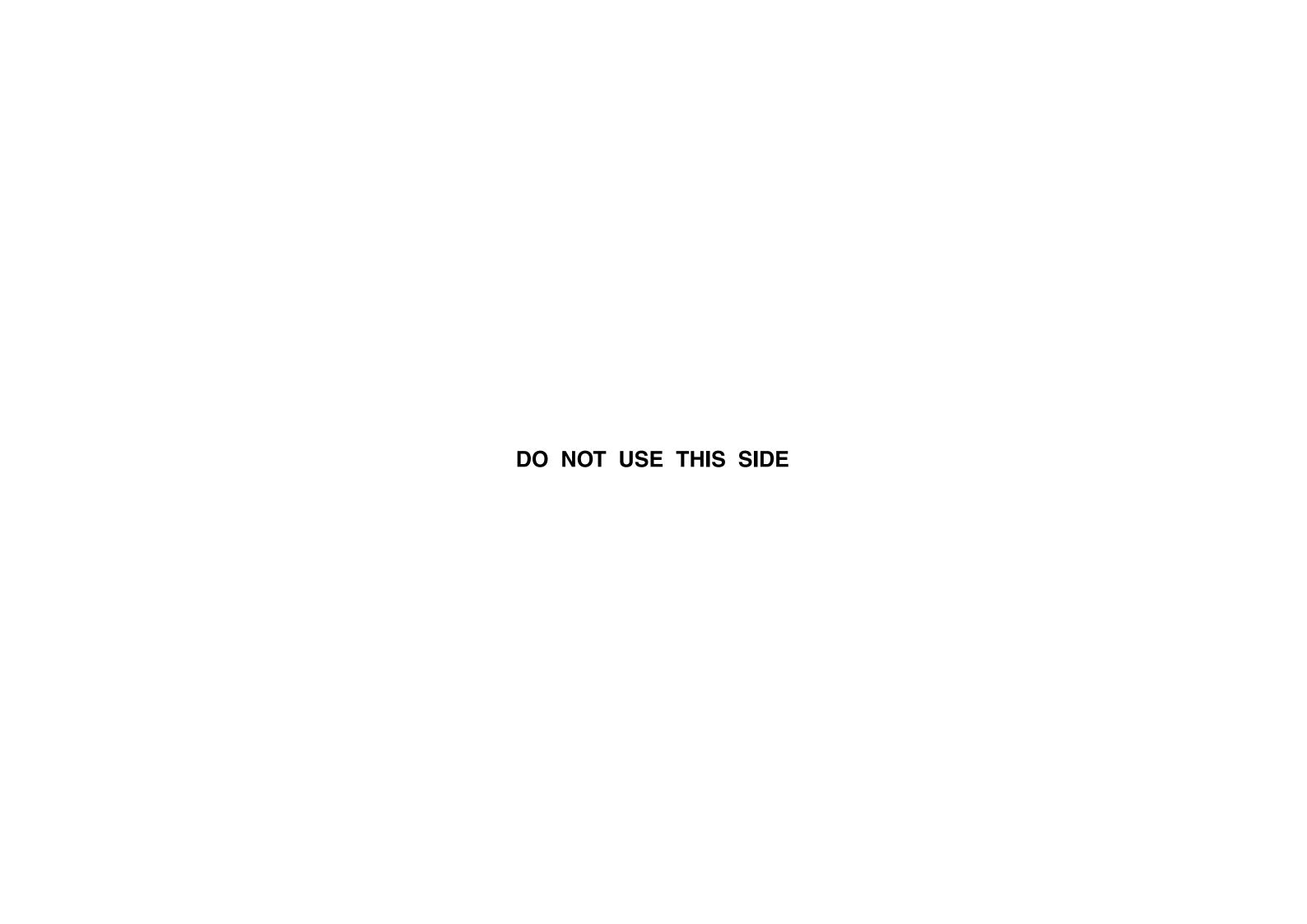
[5] Consideration of construction.

Consideration of specific materials and components (may include calculations.) [5] Consideration of dimensional detail (may include calculations). [3]

Evaluation of the suitability of the ideas with reference to the Specification.

[Total : 38]

2524/02 PRODUCT DESIGN CANDIDATE NAME CANDIDATE NUMBER _ CENTRE NUMBER _ 2525/02 SYSTEMS AND CONTROL



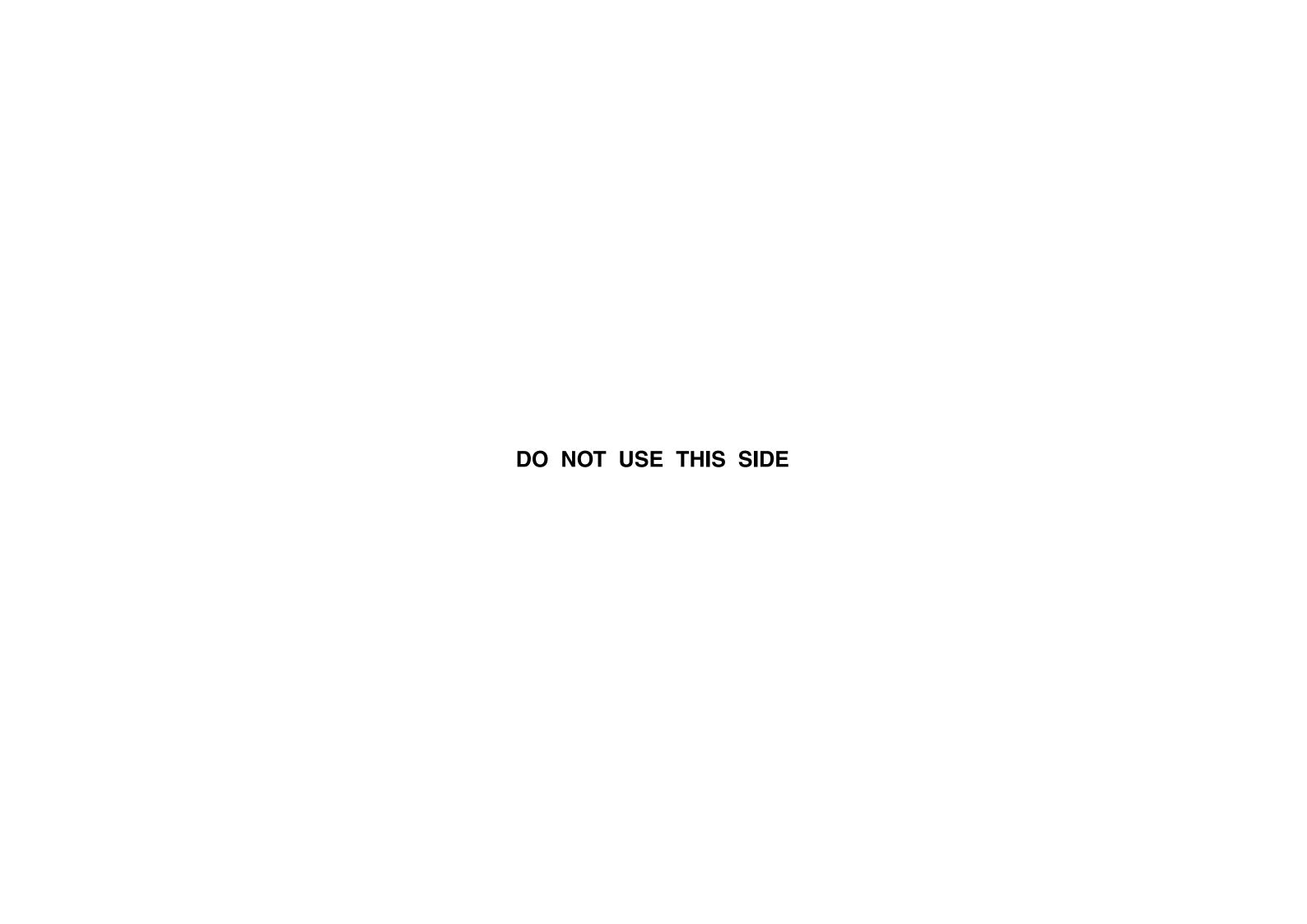
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2524/02 PRODUCT DESIGN 2525/02 SYSTEMS AND CONTROL

(b) Initial ideas (continued)

CANDIDATE NAME _____ CANDIDATE NUMBER ____ CENTRE NUMBER ____



(c) Features suitab le for developmer	nt				A3 SHEET 4 OF 4
	ed and clear ly described. [4] ne f eatures identified with ref erence to [4] [Total: 8]				
				FOR EXAMINER'S	FOR EXAMINER'S
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24/02 PRODUCT DESIGN 25/02 SYSTEMS AND CONTROL	CANDID ATE NAME	CANDID ATE NUMBER	CENTRE NUMBER	FD	