

FOR OFFICIAL USE			

1330/403

NATIONAL QUALIFICATIONS 2007

> THURSDAY, 17 MAY 1.00 PM - 2.45 PM

GRAPHIC COMMUNICATION STANDARD GRADE

Credit Level

1 110 marks are allocated to this paper: 40 marks for Knowledge and Interpretation	Date of birth Day Month Year	Forename(s)	Full name of centre	Fill in these boxes a
Cated to this paper: 40 ma	Scottish candidate number			Fill in these boxes and read what is printed below.
	er Number of seat	Surname	Town	Now.
5 5 5 5 5 5				



- Read each question carefully before you answer.
- 4 Written answers may be in ink or pencil.
- 5 Drawings and sketches must be in pencil.
- Sketches need only be in line form—do not spend time rendering.

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- Dimensions are given in millimetres or as stated.
- Orthographic drawings are in third angle projection.

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9 For each question, the element being tested and the mark allocation are shown in brackets, eg (DA 5) means a question on Drawing Abilities worth 5 marks.

10 At the end of the examination

check that your name is on every sheet; put the sheets in correct numerical order; place this sheet on top of the others;

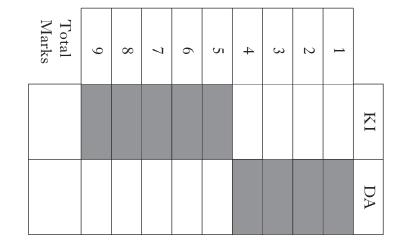
join all sheets together by **stapling** at the top left-hand corner;

before leaving the examination room, you must give these sheets to the invigilator (if you do not you may lose all the marks for this paper).



P B

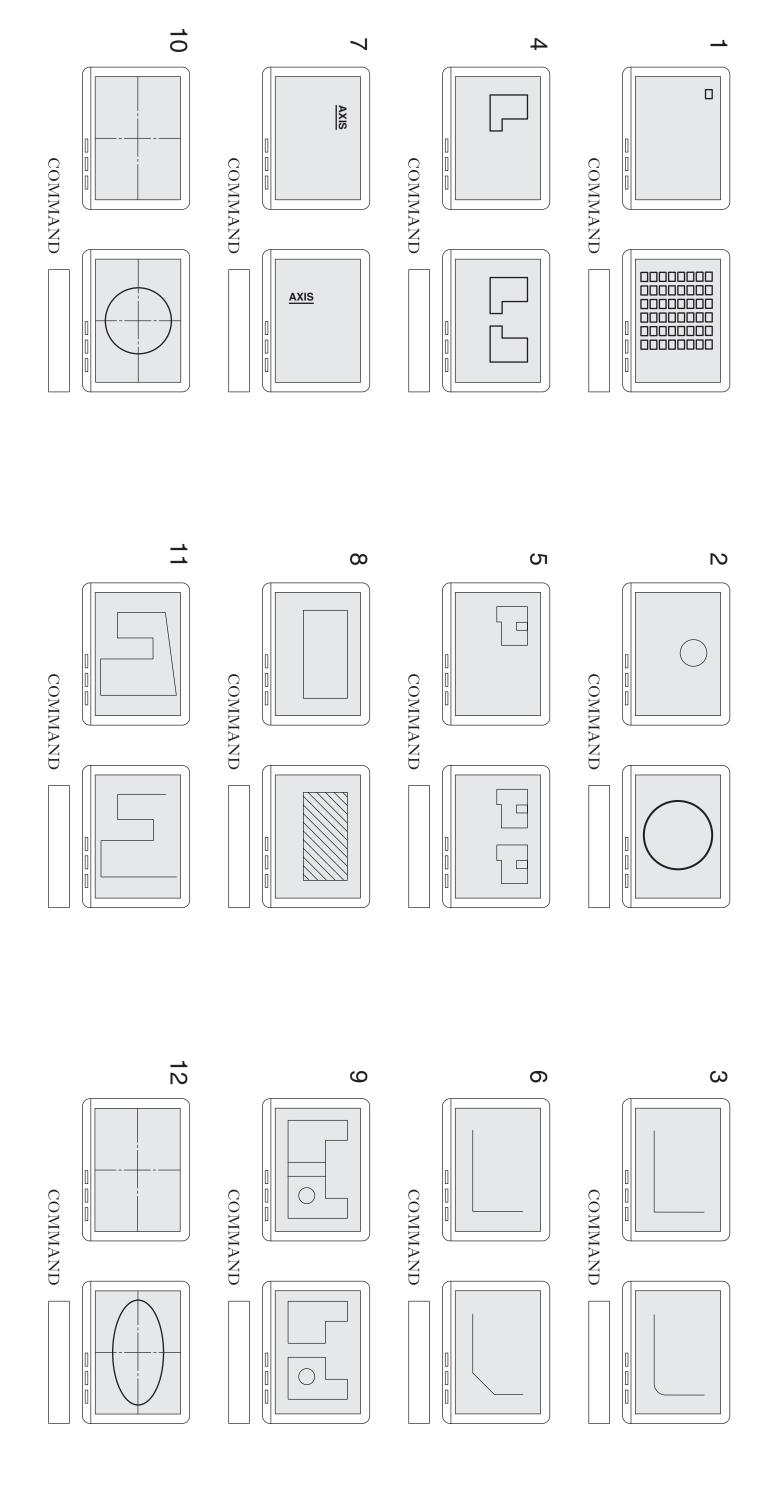
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The following drawings are the results of applying twelve 2D CAD commands. State the CAD command used in each case.

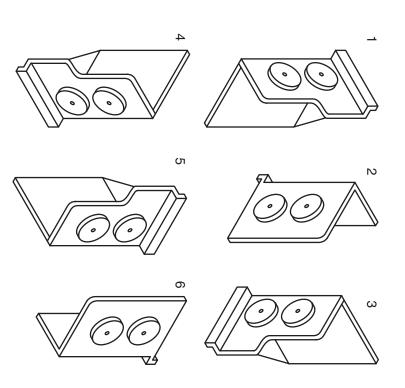


Total (KI 12)

N

The elevation, end elevation and plan of a wheeled bracket are shown.

(a) Six pictorial views are shown below.



State which two of these views represent the wheeled bracket.

Answer 1 Answer 2
Answer 2
KI 2

 $\widehat{\mathcal{C}}$ State the purpose of a sectional view. (*b*)

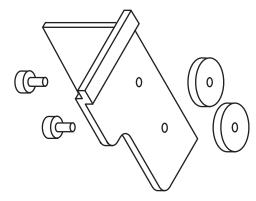
State the name given to the type of isometric view Y shown.

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	Purpose
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X	
Z	

(b)On Drawing Z, add the overall height of the bracket and the diameter of wheel A, using the correct BS convention for dimensioning.

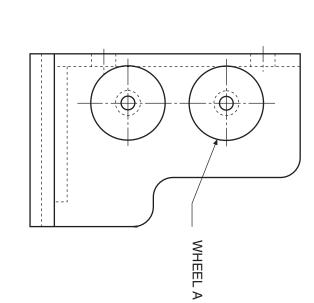
Total (KI 8)

KI 4

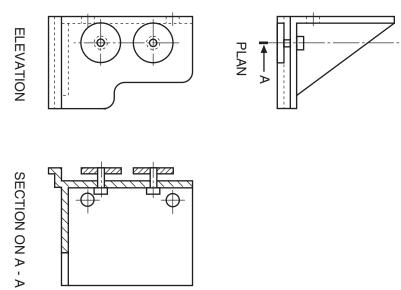


ISOMETRIC VIEW Y

↑



DRAWING Z



KI 1

ORTHOGRAPHIC VIEW

				5
Total (KI 11)	KI 2	2	1	State the names given to two types of computer-generated models.

KI 2



The choice of colour is an important factor when designing new products.

(a) Add the missing information in the table below.

Colours	Situations	Reasons for choice
White	Used for fridge designs	
	Used for new council staff uniforms	Associated with reliability
Green	Used for the packaging of a new bathroom cleaning product	
	Used for main colour of a shop that sells holidays	It is associated with happiness and sunshine
Red	Used in the design of a sports car	
	Used for the border colour on packaging of a new product	It is in harmony with yellow

KI 6

KI 1

 $\widehat{\mathcal{C}}$ (*b*) State **one** receding colour that harmonises with blue. State one advancing colour that contrasts with blue. Receding colour

KI 1

KI 1

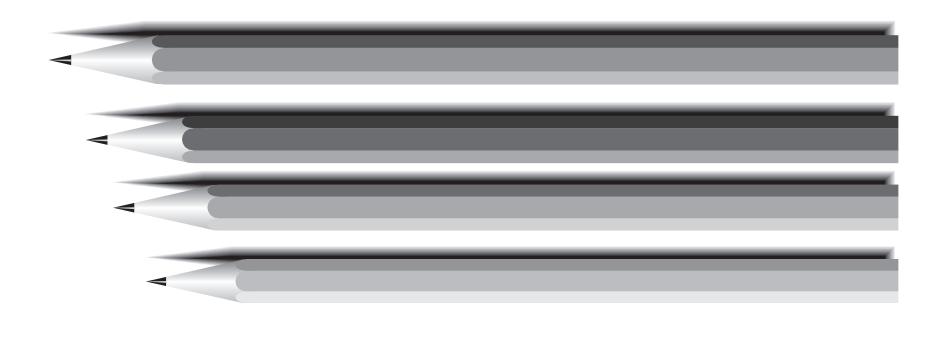
Effect.....

State the effect created by using red, yellow and blue combined in a colour scheme.

Advancing colour......

(b)

Total (KI 9)



The incomplete end elevation of a wall mounted speaker and bracket is given. A pictorial sketch and exploded part detail are also shown.

Draw:

(a) the complete end elevation;

(b) the elevation projected from the end elevation, using given start X.

Show hidden detail.

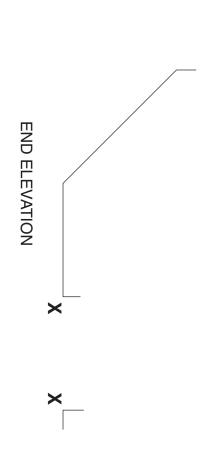
DA 5 DA 7

Total (DA 12)

EXPLODED PART DETAIL
OF BRACKET

RUBH FIT WITH
SPENCEN TOP

SPENCEN TO



ELEVATION

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6

The elevation of the base of a trophy in the shape of a cut hexagonal pyramid is given. A pictorial sketch of the trophy and base is also shown.

Draw:

(a) the plan of the base projected from the elevation;

vation:

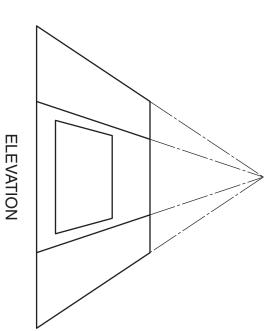
(b) the end elevation projected from plan and elevation.

Do not draw the trophy.

DA 4

DA 6

Total (DA 10)



NAMEPLATE

END ELEVATION

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TROPHY

BASE

The elevation and end elevation of a radiator key are shown.

Draw:

(a) the plan (show hidden detail);

DA 3

(b) full size, an isometric view of the radiator key, using the given start X. (Do not show hidden detail.)

DA 15

Total (DA 18)

PLAN

×

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ISOMETRIC

END ELEVATION

ELEVATION

The end elevation and plan of a road sign post bracket are given. A pictorial sketch of the road sign, post and bracket is also shown.

Draw:

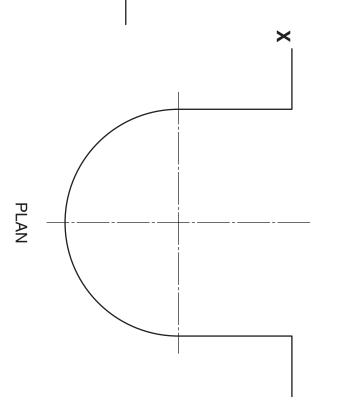
(a) the elevation of the bracket projected from the end elevation and plan;

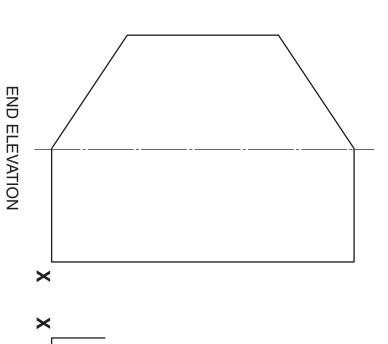
(b) the development of the bracket, using start X.

DA 7

DA 7

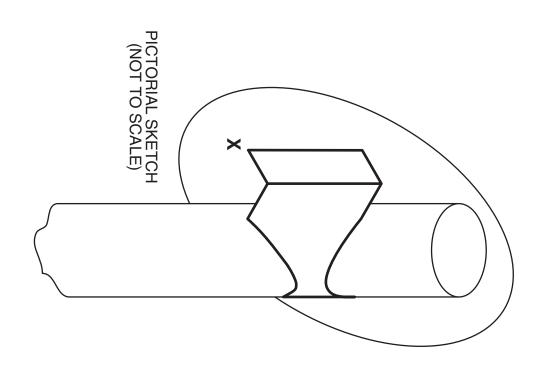
Total (DA 14)





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ELEVATION



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The orthographic views of the parts of a wardrobe handle are shown. A pictorial view of the assembled wardrobe handle is also shown.

Draw, assembled to the given sizes:

(a) the elevation of the handle (show all hidden detail);

(b) the plan of the handle (show all hidden detail);

(c) the sectional end elevation of the handle on **A-A** (do not show hidden detail).

The pin is given as a start.

Total (DA 16)

DA 5 DA 7

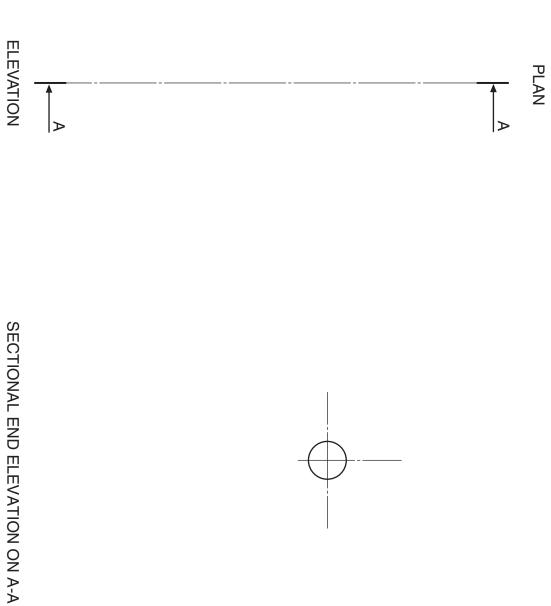
PICTORIAL SKETCH (NOT TO SCALE)

PIN

BRACKET

GRIP

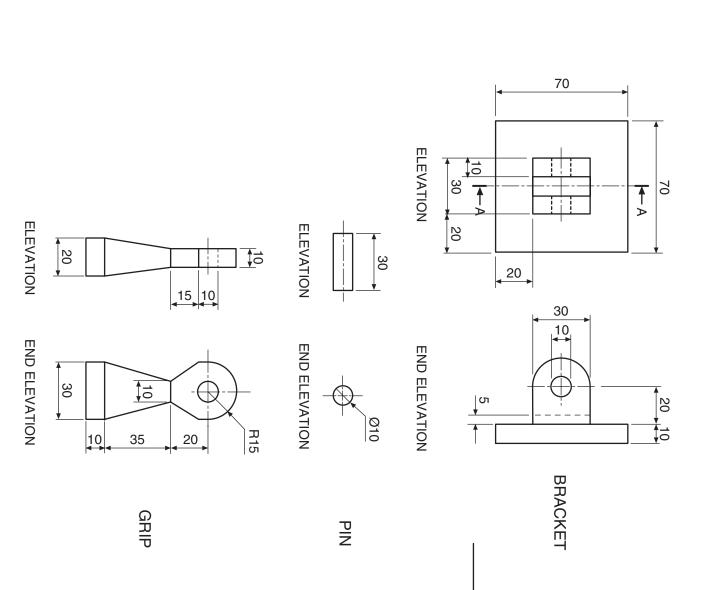
DA 4



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 $[END\ OF\ QUESTION\ PAPER]$

Candidate's Name



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