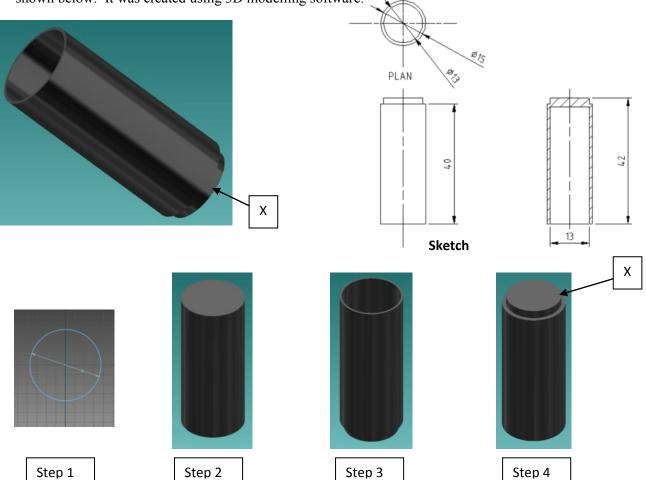


Graphic Communication

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1. The top of a board marker, the sketch from which it was created and the steps used in its creation are shown below. It was created using 3D modelling software.



The first step in creating the model was to draw a circle of \emptyset 15 in sketch mode. Answer the following questions about the next steps using the sizes from the above **sketch**.

(a) State the correct modelling technique and size used to go from step 1 to step 2.

Technique Extrude - Addition

Size used 40 mm 2

(b) State the correct modelling technique used to go from step 2 to step 3. Shell 1

(c) In the completed model describe how you would add the raised feature shown at X and in step 4 above. You may use sketches to aid your description. 3

Create a new sketch on the top surface. Using the 'circle' Tool, draw a circle Ø13 in the centre. Finish the sketch and extrude the circle by 2 mm, adding material to the surface.



(d) The model of the body of the pen was created from the profile shown below.



State the modelling technique used to create the body of the pen. Revolve - 360° Addition

(e) After the body was created, the top and other parts were created. These were then brought together as the model shown below.

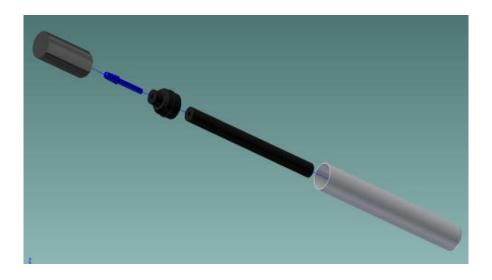
State the name given to this type of model. Assembled / Solid



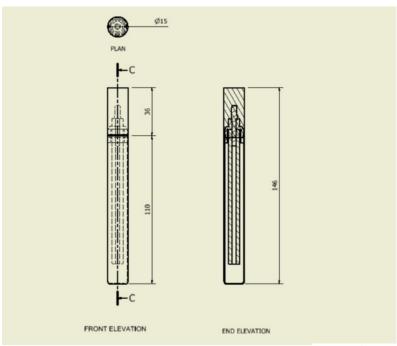
(f) It was decided that there would need to be a sales presentation created in order to market the pen.

The model below was created to be used in this presentation.

State the name given to this type of model. _____ Exploded Pictorial



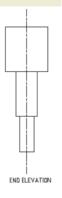
(g) State the name given to the type of drawings shown below. Orthographic

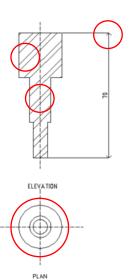


(h) When producing CAD work for your course it should have correct conventions and be in 3rd Angle orthographic projection.

Drawing A has many mistakes

State four errors contained in this attempt at producing such a drawing.





(i) Arrow heads are not full

Drawing A

(ii) 45° hatch lines are not equally spaced

(iii) Centre lines is wrong line type

(iv) Plan should be above the Elevation

4

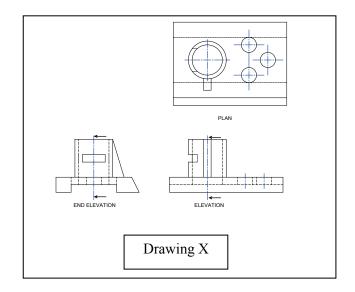
2.	Study the drawings shown below and answer the following questions.	MARKS	Do not write in this margin		
(a)	(a) Identify the symbols A , B , C and D on Drawing X				
	A Sawn Wood				
	B Insulation				
	CBrickwork				
	D. Concrete	4			
	GL SECT Drawing X				
(h)	Identify the symbols E, F, G and H on plan Y				
(5)	identify the symbols 1, 1, 3 and 11 on plan 1				
	EBath				
	F Shower Tray				
	G. Lamp				
	H. Switch	4			
	E P				

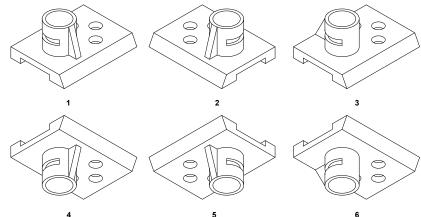
Plan Y

(c) Symbols like the ones above are drawn using BSi conventions.		
(i) State one advantage of using BSi conventions when producing drawings.		
Advantage Everyone will be able to interpret the drawings		
Crosses language barrier	1	
These symbols can also be stored as part of a CAD library.		
(ii) State one advantage of using a CAD library.		
Advantage Quicker to create the drawing		
All parts will be to British Standards	1	
iii) Plan Y on the previous page is known as a Floor Plan.		
State the names of two other types of plan used in the building industry		
Plan Site Plan		
Plan Location Plan	2	
(v) State a scale that could be used on a plan like this		
Scale1:50	1	

Total Marks 13

Do not write in this margin





a) State which two of the pictorials 1 to 6 above represent the bracket shown in **Drawing X**.

Answer 1 1 Answer 2 5

2

b) State the name given to the types of pictorial shown above.

Answer____lsometric

1

c) State the names of two other types of pictorial that could have been used to draw the bracket

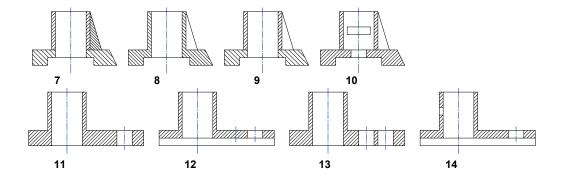
1____Oblique

2 Planometric

2

(1 or 2 Point Perspective)

Do not write in this margin



State which two are correct sections of the bracket.

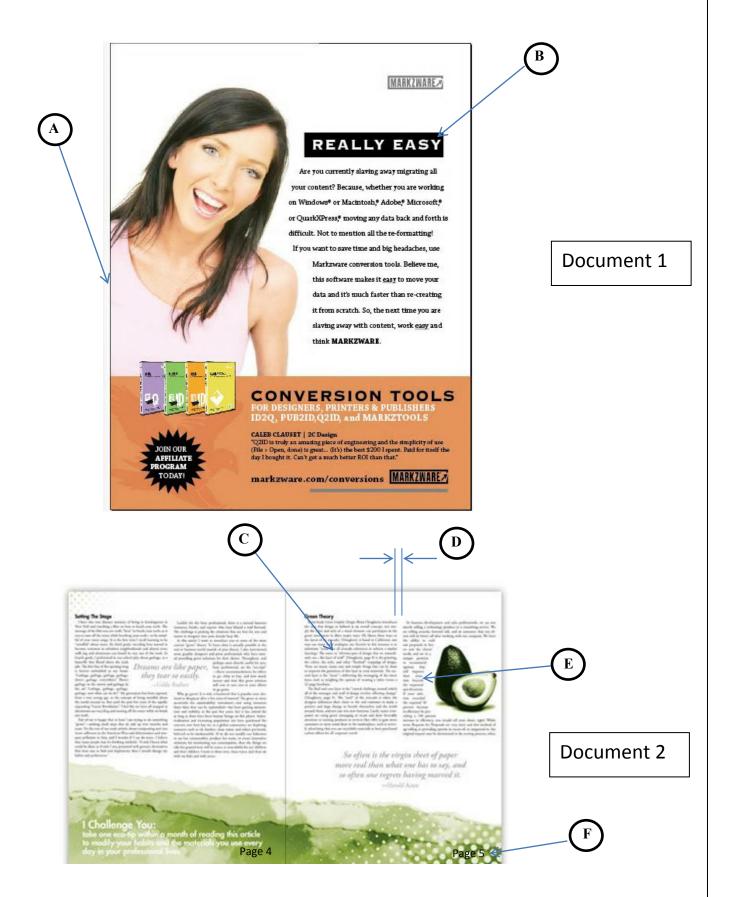
Answer 1	1	
Answer 2	14	

Total Marks 7

2

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4. The two different documents shown below were produced using DTP software



(a)	State the DTP term for each of the fe	eatures A-F shown o	on documents 1 & 2	MARKS
A	Bleed	B	Reverse	
C _	Text Box	D	Gutter	
E	Text Wrap	F	Footer	6
(b)	When designing DTP documents yo	ou should think abo	ut the principles for an effective d	isplay.
	(i) State one way in which contrast	has been used in D	ocument 1	
	The black writing contrast	s with the bloc	k colour of orange	
	The black background wit	h white writing	creating reverse on headl	ine 1
	(ii) State how Dominance has been	used in Document	1	
	The main image & body of	f text are the m	ore dominant as they	

take up 2/3's of the page

Total Marks 8

1



Red was chosen as one of the colours, state two colours that could be used with red to create this scheme.

Colou	Blue	Colour	Yellow	2
(b) A	new public library should create	e a sense of peace and	l harmony.	
	Green was chosen as one of the create a scheme	colours, state two co	olours that could be used with	green to
Colou	ır Blue	Colour	Purple	2
(c)	State the effect of decorating a re	oom in an advancing	colour.	
Effect	It would make the room	feel warm and b	right but potentially sn	naller
				1
(d)	State the effect of decorating a r	room in a receding co	lour.	
Effect_	It would make the room	n feel cool but po	otentially look bigger	
				1
(e)) State one advancing and one r	eceding colour that o	ould have been used for the	room.
	Advancing Yellow / Orange	e / Red Recedi	ng Blue / Purple / G	reen 2