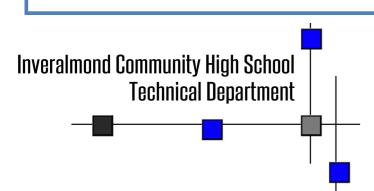


## Name:



## Complete Higher homework tutorials

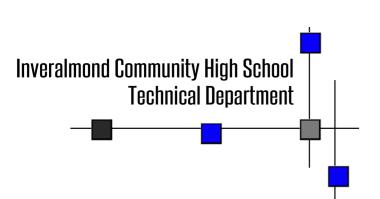
Marks

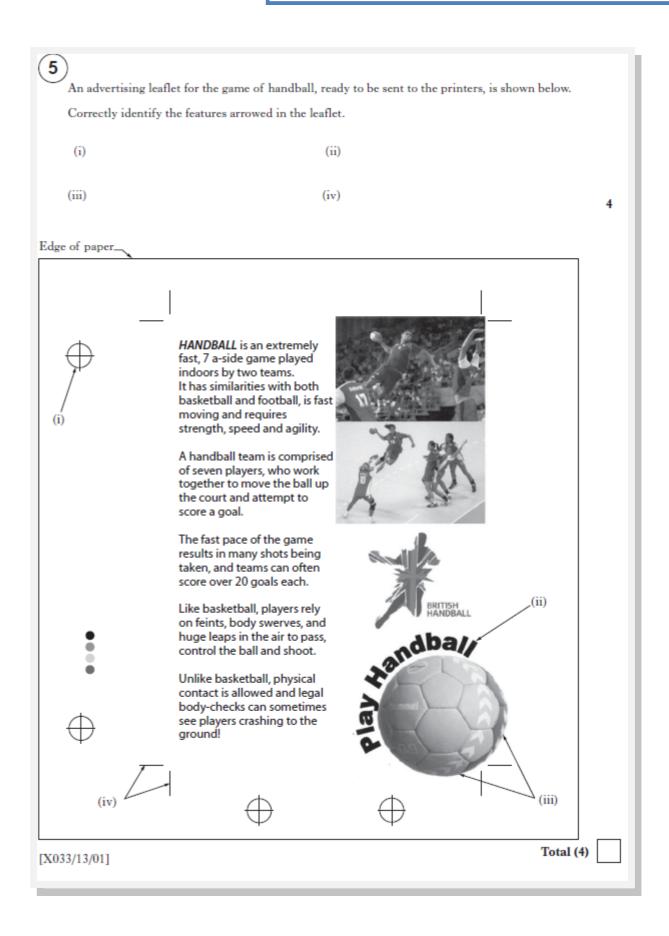
A supplementary page is included at the end of Section A for use if extra space is required.

An engineer's office uses a range of Preliminary and Production graphics.

	Explain the purpose of each type of graphic and give one example of each.		
	Preliminary	Purpose	
			. 1
		Example	. 1
	Production	Purpose	
		Example	
	~		(4)
<b>5</b> ) <sub>(a)</sub>		oth a centre line and a visible outline located in the same position. ritish Standards, which would be given priority and drawn.	Marks
			1
(b)	The following line de	escriptions are taken from British Standards.	
(0)	State the applications	-	
	btate the applications		
	Line Descriptions	Applications	
	Dashed thin line		
	Chain thin double da	shed	
	Continuous thin strai	ight	
	0 0		
	Continuous thin		
			4
			(3)

3)	- DTD - white-time					
There are three main types of balance used in DTP publications.						
In the space below, state and sketch two DT	In the space below, state and sketch <b>two</b> DTP balances.					
(a) Balance:						
(a) Datatice.						
		1				
		1				
(b) Balance:						
		1				
		Total (2)				



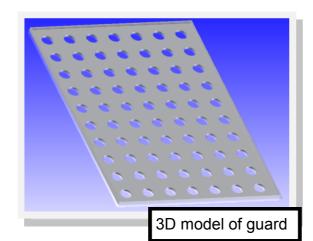


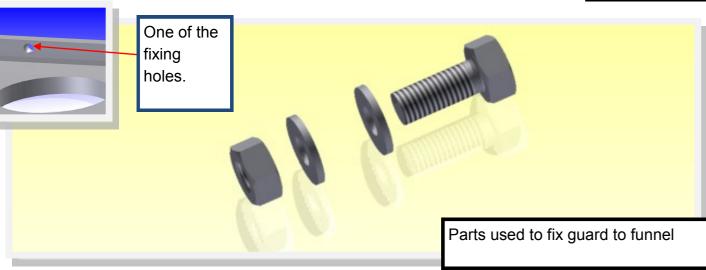
The sketches shown below were used by a CAD technician to create a 3D model a chemical fume extraction funnel for use in laboratories.

DE: HIDDEN
DETAIL
OMITTED
FOR CLARITY.
ALL MATERIAL
= Smm.

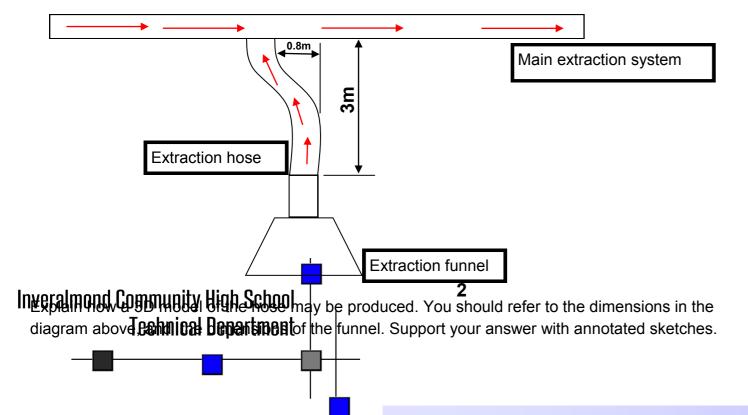
ALL SIZES IN MM.
NOT TO SCALE

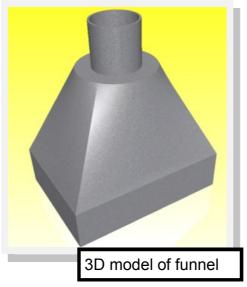
(b) i) The funnel requires a safety guard consisting of a series of holes to be fitted inside it.





(c) The CAD technician is required to design a hose to lead from the funnel to the main system, based on the dimensions shown below:





(iv) Explain how the guard would be joined to the funnel within the 3D model assembly using the bolts, nuts and washers from the CAD library. Your answer should describe how the components are constrained within the assembly. Your answer should be supported by annotated sketches.

\*\*NOTE\*: You only need to mention \*one\* of the fixing holes.\*\*

....continue overleaf....

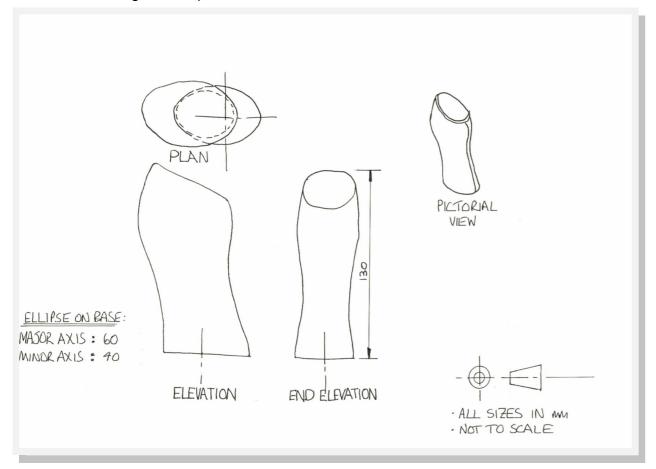




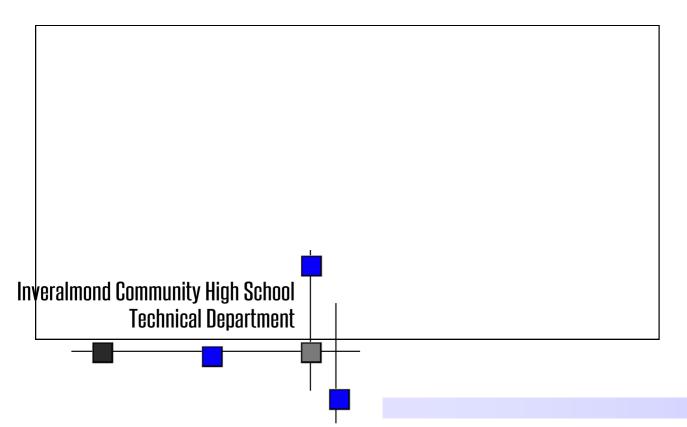
# Inveralment Community High School Technical Department

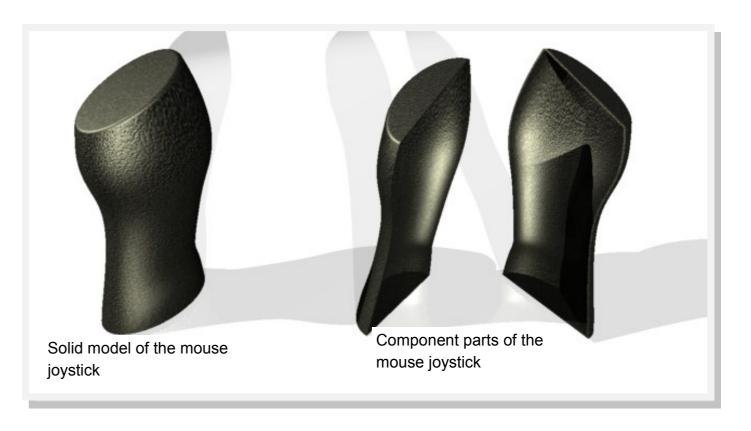
)	
Using the "Autodesk Create" leaflet.  Identify three Design Principles that are used in the leaflet, and describe ho	w they are used.
Design Principle 1	,
Description:	
•	
	2
Design Principle 2	
Description:	
	2
Design Principle 3	
Description:	
	2
)	Total (6)
Using the "Autodesk Create" leaflet.	Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe	Total (6)  Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe  Design Element 1	Total (6)  Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe	Total (6)  Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe  Design Element 1	Total (6)  Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe  Design Element 1	Total (6)  Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe  Design Element 1	Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe  Design Element 1	Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe  Design Element 1	Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe  Design Element 1	Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe  Design Element 1	Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe  Design Element 1  Description:  Design Element 2	Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe  Design Element 1  Description:  Design Element 2	Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe  Design Element 1  Description:  Design Element 2	Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe  Design Element 1  Description:  Design Element 2	Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe  Design Element 1  Description:  Design Element 2	Section A how they are used.
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe Design Element 1	Section A how they are used.
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe  Design Element 1  Description:  Design Element 2  Description:	Section A how they are used.
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe Design Element 1	Section A how they are used.
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe Design Element 1  Description:  Design Element 2  Description:	Section A how they are used.
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe Design Element 1  Description:  Design Element 2  Description:	Section A how they are used.
Identify three Design Elements that are used in the leaflet, and describe Design Element 1  Description:  Design Element 2  Description:	Section A
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe  Design Element 1  Description:  Design Element 2  Description:	Section A how they are used.
Using the "Autodesk Create" leaflet.  Identify three Design Elements that are used in the leaflet, and describe Design Element 1  Description:  Design Element 2  Description:	Section A how they are used.

The sketches shown below were used by a CAD technician to create a 3D model of a computer joystick mouse. The 3D model will be used to make production drawings and a promotional illustration.



(a) Describe how this first stage of the joystick mouse 3D model would be produced. Support your answer with annotated sketches.





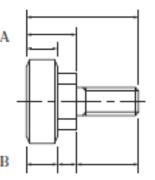
A solid model of the mouse joystick casing and the two components generated from it are shown above.

(b) Describe, using a "top-down" approach, the techniques used to create the two component parts from the solid model. You can sketch, annotate and/ or use text in your answer.

2. Section A

State the **two** types of dimensioning shown below at A and B.

Marks



Type A

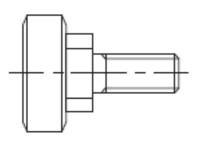
Type B

2

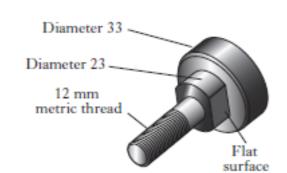
(b) In order to manufacture the component, accurate functional tolerances will have to be applied. Explain why Type A would be preferable.

(c) Sketch on the elevation below, to British Standards convention:

- the 4 dimensions shown on the pictorial view;
- (ii) the flat surface.

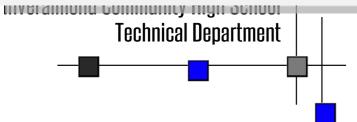


ELEVATION



Overall length 50

(8)



## Complete Higher homework tutorials

(a) There are three stages in planning a DTP document prior to the production of the Marks

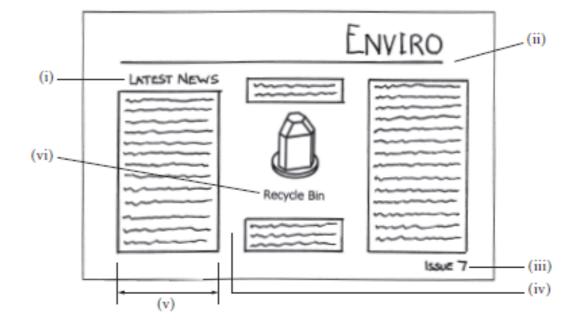
final electronic version. Research is the first stage.

.

State two further stages in planning a DTP document.

Stage .....

Stage .....



Part of the planning stage is shown above.

(b) State the page orientation used in the document above.

(c) State the DTP term for the deliberately created clear area to the left of the word

ENVIRO.

.....

(d) State the DTP term for each of the features (i) to (vi).

(i) ...... (ii) .....

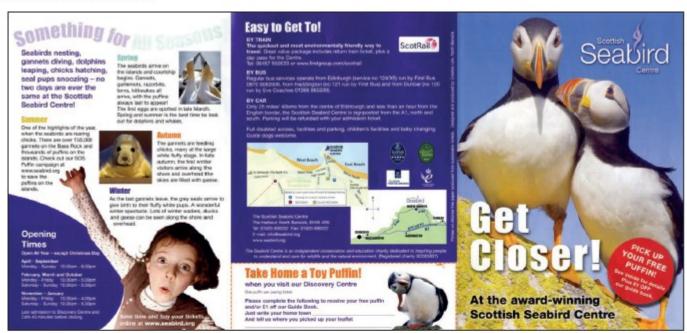
(iii) ...... (iv) .....

(v) ...... (vi) .....

(10)

2

#### Leaflet for use with Questions 1 and 2



→ SIDE ONE

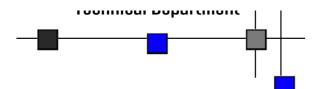


2	Section A	
$\overline{}$	Using the "Scottish Seabird Centre - Get Closer" leaflet.	
	Identify three Design Elements that are used in the leaflet, and describe how they are used.	
	Design Element 1	Design Element 2
	Description:	Description:

## Complete Higher homework tutorials

rdeni	ify three Design Principles that are used in the leaflet, and des	scribe now they are used.
Desig	n Principle 1	
Desc	ription:	
Desig	gn Principle 2	
Desc	ription:	
Desig	n Principle 3	
Desc	ription:	
		Total (6

Total (6)



ln۱

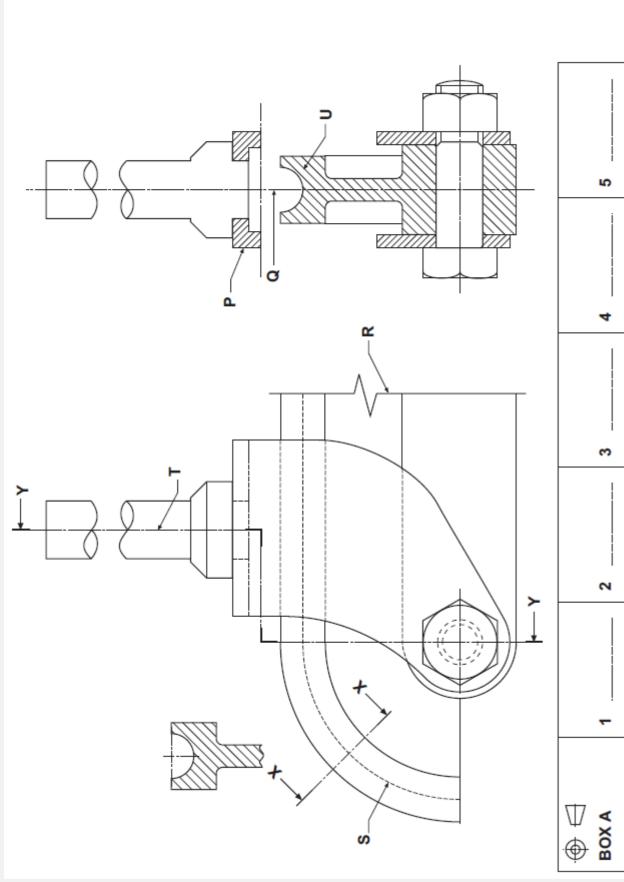
SIDE TWO →

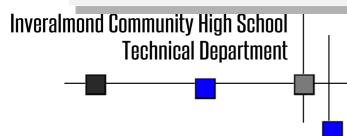
Describe, using sketches if required, the following desk top publishing terms.	
Page orientation	
***************************************	1
Rule	
***************************************	
	1
Caption	
	1
Gutter	
	1
Reverse	
	1
Header	
	1
Margin	

## Inveralmond Community High School Technical Department

(a)		A range of drawing types are used in industry within the categories <i>Preliminary</i> , <i>Production</i> and <i>Promotional</i> .		
	(i)	State the category that an orthographic drawing, showing dimensions and tolerances would be in.		
		Category	1	
	(ii)	State the purpose of this type of drawing.		
		Purpose	1	
(b)	State	a type of <i>Promotional</i> graphic commonly used in marketing.		
	Grapl	nic	1	
			(3)	
(a)		ographic views created in a CAD package are drawn in <b>2D</b> .		
	State	two types of views that would be drawn in 2½ D.		
	View	1	1	
	View	2	1	
(b)	State	the computer hardware that allows:		
	(i)	drawings and text to be sent accurately to another computer;		
		Hardware	1	
	(ii)	existing photographs to be captured and inserted into a desk top published document;		
		Hardware	1	
	(iii)	production of a hard copy of a word processed document.		
		Hardware	1	
			(5)	

3.





	eng		g, including the title block, shown opposite is drawn to <b>British</b>	Marks
(a)	Sta	te the British St	andard symbol shown in <b>Box A</b> .	
				1
(b)			re items of information that should be included within the given to <b>British Standards</b> .	
	1		2	
	3		4	
	5			5
(c)	Sta	te the <b>British S</b> t	andard type of sectional view created by:	
	X-X	<b>(</b>		1
	Y-Y	<b>,</b>		1
(d)			below gives <b>either</b> the Description <b>or</b> the Application of the ne <b>types</b> indicated on the drawing shown on the opposite page.	
			on <b>or</b> the Application of each line <b>type</b> in order to complete the xample is given for <b>P</b> .	
	P	Description:	Thick, continuous	
		Application:	Visible edges and outlines	
	Q	Description:		1
		Application:	Centre lines, lines of symmetry	
	R	Description:	Continuous thin straight with zigzags	
		Application:		1
	s	Description:		1
		Application:	Hidden outlines and edges	
	Т	Description:		1
		Application:	Cutting planes	
	U	Description:	Continuous thin	
		Application:		1
				(13)

what's on... Your monthly guide LAST CHANCE TO BOOK FOR.. to the UK's premier or a full list of what's on at The O<sub>2</sub> text **INFO** to 60202. As an O<sub>2</sub> customer you can get priority tickets to The O<sub>2</sub> – visit o2.co.uk/theo2 to register THIS MONTH From hardcore punk to acting and writing, Rollins has done it all. Catch his spoken word show at indigO2. Events at The O<sub>2</sub> PARTY LIKE A V.I.P. IN THE O2'S BLUEROOM!

If you're heading to a show at The O<sub>2</sub>, make a proper night of it by taking advantage of some of the other things we have on offer, like the blueroom bar...

The sumptuous blueroom bar is only open during arena events and is exclusively for the use of a limited number of O2 customers per night. If you text BLUEROOM to 60202 while you're at The O<sub>2</sub>, you will be one of the lucky 200 people at every show to receive an electronic entry ticket via text. Don't worry if your pals aren't on O2, as everyone who bags a blueroom ticket can bring three friends with them!

The bar is filled with comfy sofas, chilled-out lighting, a jukebox with thousands of tunes and screens showing an ever-changing array of wallpapers. Got a picture you want to share? Text it to 60202 and we'll screen it on the walls. Plus, every night is different in the blueroom as its theme changes to suit what's happening in the The O<sub>2</sub>, that right, so you can enjoy a total event experience! (See Bar Themes for details.)

The blueroom bar is just one of the exciting choices for O2 customers when you visit The O<sub>2</sub>. Makes user that you text BLUEROOM to 60202 and don't miss out! PARTY LIKE A V.I.P. IN THE O2'S BLUEROOM! JUKEB#X NEXT MONTH **BLUEROOM: BAR THEMES** BOOK NOW FOR Ganadian rockers
Canadian rockers
Canadi 11, 12 & 30 September, 1 October 11, 12 & 30 September, 1 October The musical icon that is Stevie Wonder is touring Europe for the first time in nearl ten years. Don't miss this rare chance to see a genuine legend in action, playing all of his greatest hits at The O<sub>2</sub>. BOOK NOW COMING SOON 14 October
This final night of James Blunt's All The
Lost Souls UK tour is guaranteed to be
one to remember.

Please refer to the "Events at The O<sub>2</sub>" leaflet.

Annotate the leaflet to show:

Footer
Bleed
Headline
Gutter
Reverse Text
Rule

Total (6)

# Inveralment Community High School Technical Department

Study the "Events at The O <sub>2</sub> " leaflet.
dentify and describe three Design Elements that make an impact on this page
Design Element 1
Description:
Design Element 2
Description:
Design Element 3
Description:
Please refer to the "Events at The O2" leaflet.
Please refer to the "Events at The O <sub>2</sub> " leaflet.  Identify and describe three Design Principles that make an impact.
Identify and describe three Design Principles that make an impact.
-
Identify and describe <b>three Design Principles</b> that make an impact.  Principle 1
Identify and describe <b>three Design Principles</b> that make an impact.  Principle 1
Identify and describe three Design Principles that make an impact.  Principle 1
Identify and describe <b>three Design Principles</b> that make an impact.  Principle 1

I wo different types of to Design Principles:	balance are snown	in the graphic items below.	With reference

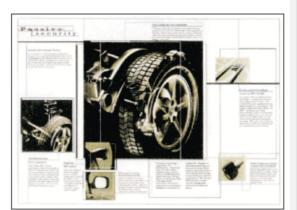
- (a) name the type of balance;
- b) describe how the balance is applied in each composition.
  - 1 Name of balance .....

Description



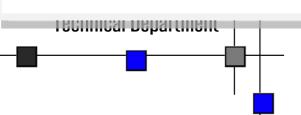
2 Name of balance .....

Description



Inveral

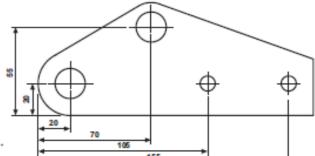
Total (4)

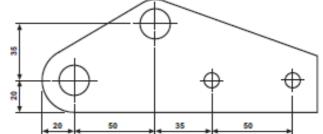


## Complete Higher homework tutorials

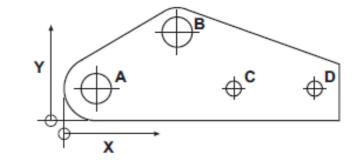
Three methods of dimensioning the position and diameter of holes on a plate are shown below.

(a) State the British Standard term for each method.





Hole	X	Y	Ø
A	20	20	20
В	70	55	20
C	105	20	10
D	155	20	10



1

1

Method 3......

State an advantage of dimensioning using Method 1 over Method 2.

(ii) State an advantage of dimensioning using Method 3 over Method 1 and Method 2.

Roll up, roll up! Picnic in style with a platter of

and chargrilled style chicken.

Asda Honey Roast Dry Cure Ham, £1.48 (150g:

Asda Chargrilled Style

99p/100g; chiller)

mouthwatering cold meats, including

honey roast ham, best topside of beef

Loin, £1.48 (150g;

£1,48 (100g; £1,48/100g;

1.

Please refer to the Leaflet for use with Question 1.

Design Elements and Design Principles should be considered when producing a page layout. With reference to the Leaflet for use with **Question 1**, select **two Design Elements** and **two Design Principles**. Identify and describe how each contributes and makes an impact for the given page.

Design Element 1

Description:

Design Element 2

Description:

Design Principle 1 .....

Description:

Design Principle 2 .....

Description:



## Come

The sun's shining, there's not a cloud in the sky... grab that picnic hamper and go!

The best picnic food is simple, fuss-free and totally delicious. And that's just what you'll find at Asda, from tasty cooked meats and handy dipper snack packs to ready-cooked chicken wings and drumsticks that you can enjoy cold or sizzle up on the barbie. There's all you need for a fun feast in the sun.

#### KEEP IT COOL

Put frazen gel packs in your coolbag to keep food cold. Or you can freeze individual drink cartons to create space-saving ice pack. If you're driving, keep the coolbag in the passenger area of your car, rather than in a stuffy boot. When you've served of pop leftover food back in the coolbag straightaway, until you're ready for second Keep the coolbag in the shade while you picnic.

8 Let's meat up!

#### Fancy a dip?

A must for kids' lunchboxes, these mini sausages and tender chicken chunks come with their own yummy dips. With the sausages you can choose from a BBQ, Spicy or Tangy dip, while the Kofta Bites have a minty raita dip. The Tikka and Mexican style chunks come with a tangy sauce and crunch dip duo for a new taste sensation.



Asda Snackin' 8 BBQ/Spicy Dippers, 98p (105g; 93.3p/100g chiller)

2 for £1.5

Asda Snackin' Mini Chicken Kofta Bites, 98p (85g; £1.15/100g; chiller)

2 for £1.50

da Snackin' exican de Dip 'n' unch, 18 (115g:

#### Drum up a feast Pop some spicy

Pop some spicy tikka or Chinese style drumsticks on the barbie for an instant sizzling treat.

Asda Ready To Ear Chinese Style/ Tikka Chicken Drumsticks, £2.88 (603g; 47.8p/100g chiler)

#### Snack attack

Make sure you've got a pack of this classic dry cure ham in your hamper – the wafer-thin slices are perfect for sandwiches and salads. And don't leave home without some succulent satay sticks – made from 100 per cent chicken, they come with either a Tomato or Sweet Curry dip.



Asda Satay Snacks + Dip. 98p (90g: £1.08/100g; chiller) 2 for £1.5

## Perfect for

Picnic fare doesn't get much better than these lightly spiced chicken wings – one just won't be enough



#### So simple

Pick-me-up chicken

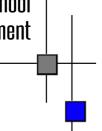
Bring a disposable BBQ on your picnic so that you can enjoy pipnig hot, spicy chicken wings. No need to season, marinade or wait for them to cook. Just give them a sizzle until they're hot all the way through and get stuck in.

Asda Ready To Eat Chinese Style Chicke Wings, £2.88 (702g; 41p/100g; chiler) Asda Ready To Eat Hot & Spicy Chicken Wings, £2.88 (702g; 41p/100g;

Let's meat up!

Total (8)





OCCLION

Marks

3.

When handling graphics, Vector and Bitmap images are used.

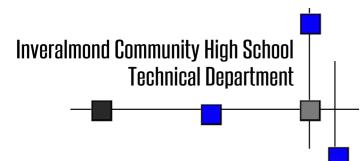
 (a) Describe, with the aid of sketches, the difference between a Vector and a Bitmap image.

2

Explain two advantages a Vector image has in comparison to a Bitmap image.

2

Total (4)



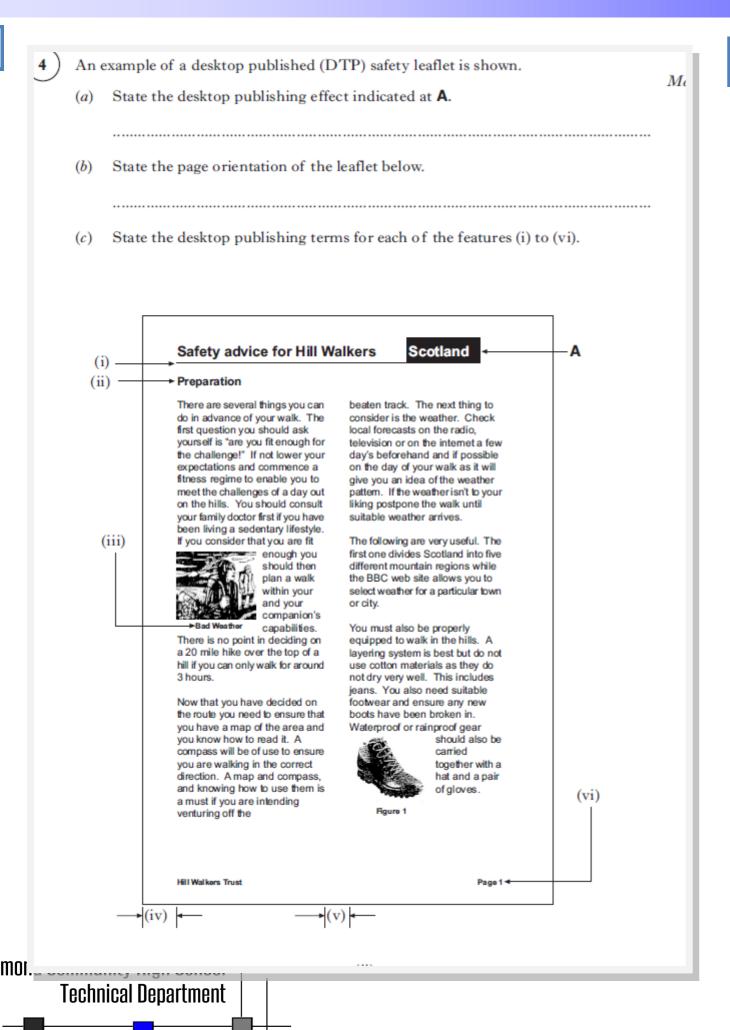
A page layout is shown below. In the space provided, name the Desktop publishing features identified (A to F).

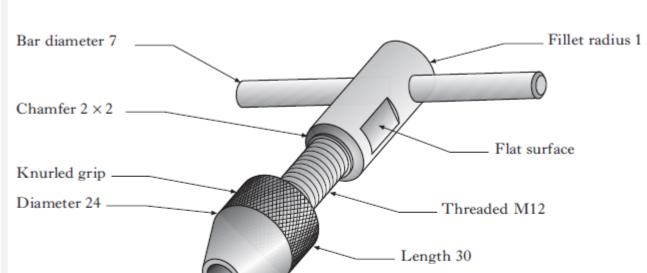


A	В	C
_	221	<u></u>

D ...... F .....

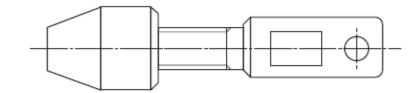
Total (6)





A pictorial view of a tap wrench is shown. Six sizes are given.

(a) Sketch to British Standards conventions, the six given sizes on the orthographic view below.



(b) Sketch, on the orthographic view above, the British Standards convention to indicate:

- (i) the flat surface on the barrel;
- (ii) the knurled pattern on the chuck.



Marks

## A supplementary page is included at the end of Section A for use if extra space is required.

Preliminary, Production and Promotional graphics are used extensively in the consumer, construction and engineering industries.

Marks

Explain the purpose of each type of graphic and give one example of each.

Preliminary	Purpose	
		1
	Example	1
Production	Purpose	
		1
	Example	1
Promotional	Purpose	
		1
	Example	1
		(6)



## Complete Higher homework tutorials

An architect wishes to draw the Floor Plan of a house. He has a choice of two scales. State which two scales are the common scales for drawing a floor plan. Scale 1 ...... Scale 2 ..... 1 State two reasons which might influence his choice. Reason 1 Reason 2 Name each of the British Standards symbols shown on the graphic. D ..... E ..... Two incomplete views of a hollow, thick-walled cylinder are shown. Sketch the British Standards line types for centre lines, hidden detail and cutting plane in the appropriate positions. (You may use a straight edge.)

SECTION A-A

**ELEVATION** 

Please refer to the Leaflet for use with Question 1.

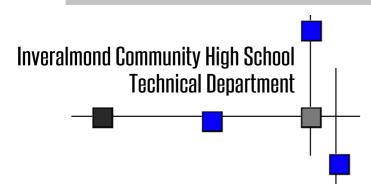
Study the "Insight" leaflet.

State three design elements that have been applied to the leaflet and describe the effect produced by each.

1.

2.

3.





#### The power of podcasts

#### Women at risk



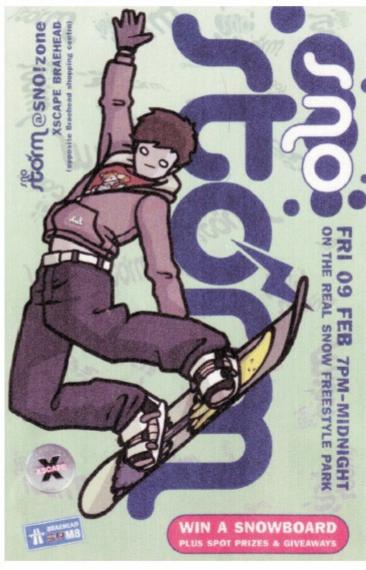
WIN! A luxury 12-day European river cruise

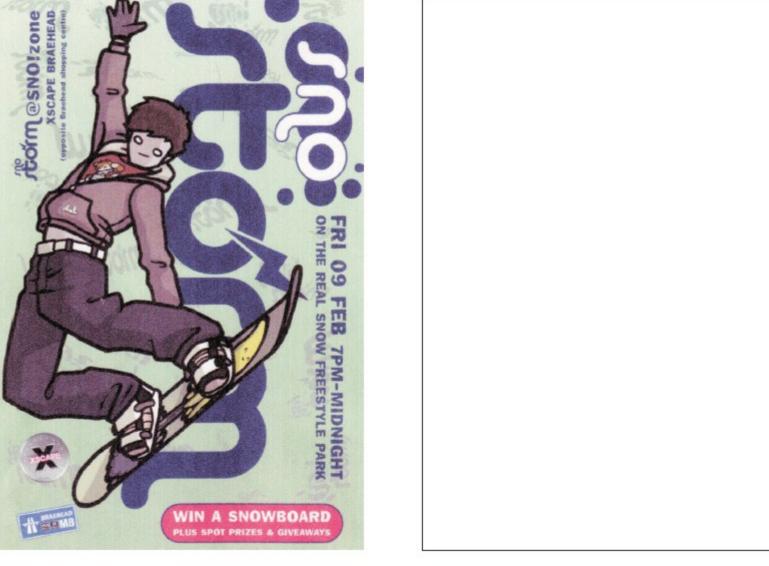
A commercially produced design proposal for a promotional leaflet is shown below.

In the position indicated, produce an alternative **full size** visual design using your knowledge of Design Principles.

TAT COLLEG

5





# Inveralmond Community High School Technical Department

design describing the impact they had on your design.			
Design Principle used			
Description of impact			
Desire Districts and			
Design Principle used			
Description of impact			

warks

(a) (i) Sketch a rectangle 40 mm × 30 mm in landscape format: include the capital letters ABC, to demonstrate the DTP effect, reverse.

SKETCH

2

(ii) Describe, by means of a sketch, the term text wrap.

SKETCH

1

(b) Describe each of the following DTP terms, using a sketch if required.

Footer

Mar

1

Column rule

1

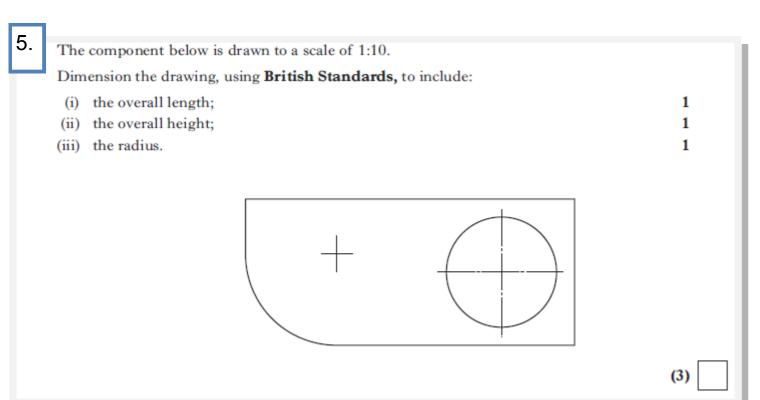
Gutter

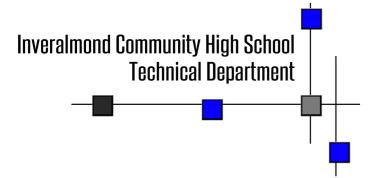
Box

1



A 3D CAD solid model of a component is shown. With the aid of sketches, explain how this 3D CAD solid model of the component will be produced.





(a) (i)	Describe what is meant by <b>dimensional tolerancing</b> .	
		1
(ii)	State $\boldsymbol{two}$ reasons why tolerances are an important feature in manufacturing.	
	Reason 1	
		1
	Reason 2	
		1
(iii)	Show a horizontal linear dimension of 30 mm with a tolerance of $+0.15$ and $-0.25$ applied directly to the given graphic, using a recommended method.	
		1 (4)
Production	n drawings are used in the Consumer, Engineering and Construction industries.	
State a <b>di</b> f	fferent example of a Production drawing applicable to each industry.	
Consume	r industry	
		1
Engineer	ing industry	
		1
Construct	tion industry	
		1
		(3)

6.

5.

i ne grapnic snown below is a page out of a magazine

Rule off and annotate the given page to show the terms listed below.

- Gutters
- · Left margin
- Bleed

Sub Headline

(6)

#### Health Problems

#### IRRITABLE BOWEL SYNDROME Irritable Bowel Syndrome (IBS) is the most

common bowel disorder in the western world. but it is largely unspoken about, as sufferers usually feel too embarrassed. Often help is no sought even though symptoms can be painful and can evolve into life threatening conditions.

usually occurring between the ages of 20 and 40. Its symptoms are constipation or diarrhoea or a change between both of these. Stomach oche, bloating and wind may also be present with the condition.

IBS may be triggered by stress, hyperventilation, hormone imbalances and different types of

Osteoporosis is a disease than thins the bones, making them weak and brittle. Small knocks and bumps easily cause fractures or breaks, especially to vulnerable areas like the wrists and hips. 1 in 3 wamen and 1 in 12
men suffer from the condition. However there
are no obvious warning symptoms and usually
a break or fracture is the first sign.

Same factors increase your risk of asteoporosis: being underweight, family history (your genes), post-menopouse, eating disorders, insufficient calcium and Vitamin D intakes, law hormone lavels (oestrogen and testosterone), smoking, alcohol, and the use of certain medications (corticosteroids and anticonvulsants).

Reduce the risks of osteoporosis by enjoying a healthy diet rich in calcium and Vitamin D from an early age, because by 30-35 years your banes have reached their maximum density (with peak calcium content).

Maximum bone amounts can be achieved by: Increasing weight bearing sports such as walking, running, gym training and even skipping and dancing.
 Avoiding smoking and excessive alcohol.

food. Unfortunately, because there are many causes, there is no single effective treatment. For some, the answer is a high fibre diet, for others a low fibre diet or an exclusion diet to avoid offending foods. In some cases drugs may be prescribed.

Research has shown that over half of IBS sufferers have a food intolerance The 5 most common foods that sufferers are intolerant to are: wheat, corn, milk, cheese and oats. However, before any ingredients are avoided, your diet should be assessed by a dietitian or your doctor.

For further information contact your doctor or the IBS Network 0114 2611531

#### balanced diet that contains plenty of calcium and Vitamin D.

Replacement Therapy (HRT) can help prevent bone loss. During the menopouse the level of the hormone cestragen falls, resulting in bone and calcium loss, however HRT can limit the effects.

For more information contact your doctor or PO BOX 10



#### ARTHRITIS

Arthritis causes inflammation and swelling in the joints. The two most common types are: Osteoarthritis (most common) mainly affects the weight bearing joints such as the hips, knees and spine. The symptoms range from oches and stiffness to what can eventually lead breaking down of the cartilage. Once the cartilage is worn the bones rub together

Rheumatoid arthritis is a disorder in which the body progressively breaks down the joints, however remissions can occur.

#### CAN I HELP MYSELF? OSTEOARTHRITIS

but it is easy to become overweight. Every step taken increases the load on these joints by 3-5 times the body weight, therefore weight control is vital to minimise stress, reduce pain

#### RHEUMATOID ARTHRITIS

It is not agreed whether your diet affects the treatment of rheumatoid arthritis, however studies clearly show people with this disease are at risk of poor nutrition. This may be a result of a decreased appetite due to constant pain and immobility, or because of problems with shopping, preparing and cooking of foods. rheumatoid arthritis often have lower intakes of folic acid, Vitamin Bó (pyridoxine), zinc and magnesium. Anaemia is also a common problem as a result of law intakes of iron. For more information ask in-store for a Vitamins and Minerals fact sheet.

The omega 3 fatty acid, eicasapentoenoic acid (EPA) has been shown in a study to relieve morning stiffness and cause fewer tender joints. Similar results were obtained with evening primrose ail, a rich source of gamma-linolenic acid (GLA).

There are many diet treatments, self-help remedies and even claimed 'cures' for rheumatoid arthritis. However most are unproven, and may not benefit your health long term. Before beginning any diet consult your doctor, who may refer you to a dietitian for advice.

For further information contact Arthritis Care
18 Stephenson Way
London NW1 2HD

Helpline 0808 800 4050



Complete Higher homework tutorials

## **Type Specification**

Explain, with the aid of annotated sketches, the differences between a serif and a sans serif typeface.

"Balance" is a Design Principle. Two types of "Balance" are:

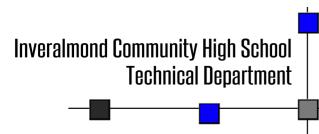
- Symmetrical
- Asymmetrical.

For each type of "Balance", sketch or describe the typical layout of a DTP page.

(i) Symmetrical

2

(ii) Asymmetrical



Marks

When producing an effective layout, Design Elements and Design Principles should be considered.

Explain, with the aid of sketches, how the following Design Elements and Design Principles make an impact in a publication.

Contrast

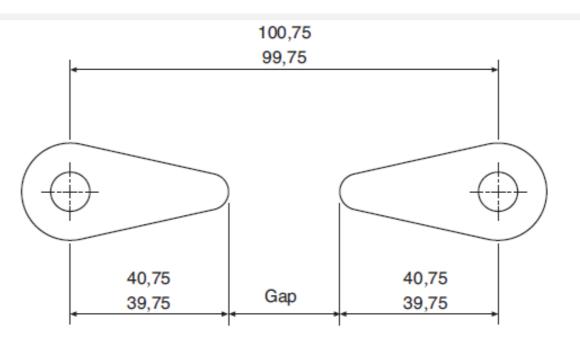
Shape

White Space

6

2

2

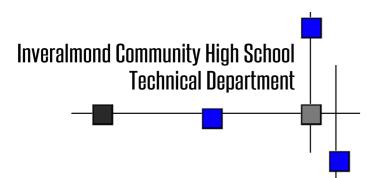


The paddles from a pinball game are shown. The paddles are set at a nominal 100 mm apart centre to centre.

The distance between the pivot centre and the end of the paddle is 40 mm with a tolerance of  $\pm 0.75$  and  $\pm 0.25$  applied.

Calculate the maximam and minimum gap between the paddles.

(Show all relevant calculations.)







Design Elements/Principles have been given below.

Please refer to "Moray Monster Trails" leaflet.

For the terms below:

- circle to show whether a Design Element or Design Principle;
- describe with direct reference to the leaflet, how the design element or design principle has been used in the leaflet.
- (i) White space: Design Element/Design Principle Description:

(ii) Balance: Design Element/Design Principle Description:

(iii) Shape: Design Element/Design Principle Description: (iv) Colour: Design Element/Design Principle
Description:

2

(v) Contrast: Design Element/Design Principle Description:

(vi) Value: Design Element/Design Principle Description:

Total (12)

Inveralment Community High School Technical Department

The graphic shown below is a page out of a magazine.

Rule off and annotate the given page to show the Desktop Publishing terms listed below.

Column structure

· Gutters

Body text

· Text run-around

Reverse text

• Sub Headline

(6)



SCALA,

On a rocky little outcrop above ur and the deep blue sea, Casa alla Scala is a chic, three-bedroomed apartment in the charming fishing village of Santa Maria La Scala in eastern Sicily.

#### WHAT'S IT LIKE?

The apartment inhabits the whole first floor of a grand villa and is beautifully Italian style. If you want to switch off but, like me, get twitchy by a pool, Casa alla Scala offers the perfect mix of relaxation with a window on to Sicilian life – breakfast watch the busy fishermen below

#### WHAT'S FOR SUPPER? Locally caught seafood - I've

ever eaten fresher fish. There are two simple, sensibly priced restaurants overlooking the bay, both a five-minute stroll away. At La Grotta you choose your fish from the counter before it's rilled and dressed with olive oil and emon juice. A classic lemon granita was the perfect finish. Next door, the owner of Trattoria Scalo Grande recommended linguine with gamberini (red prawns), parsley and olive oil - delicious. Our €38 bill for two included half a litre of good house wine and a tomato salad.

There are two doubles and one twin room, all spacious, filled with elegant antiques and each with its own shower room or bathroom (think rainfall owers, Jacuzzi tubs and fluffy Armani owels). Wake up to uninterrupted sea

for a dip in the sea. A village shop sellbread, milk and other basics; walk a little further and poke your head into the pretty 17th-century church. Lunch at home before retiring for a siesta, but don't miss the shrill whistle of

the gelateria van come late afternoon. Treat yourself to brioche con gelato, the typical Sicilian snack - ice cream in a brioche bun that's eaten like a sandwich friendly

#### DO NEARBY The coastal city of Acireale is

a 10-minute drive away. Visit the tiny bakery at 51 Corso Umberto, with a fired oven, or have an espresso at Barocco at number 34. Try Pasticceria Castorina (109 Corso Savoia) for a cooling almond aubergines, tomatoes and lemons reign supreme. It's worth driving 40 minutes south to Catania's sprawling market; the huge range of fish will excite any cook (you can cook supper on the outside kitchen's barbecue). More sophisticated but touristy Taormina is 40 minutes north - explore the shops then take the

cable car down to the pretty beach. A trip to Etna is a must. On the way, pick up lunch at Viagrande's traditional its pizza Siciliana - fried and stuffed Drive on to Zafferana Etnea (famous

from top: the villa's terrace

overlooks the sea; from the outside; the master bedroom courgettes at Catania's family-run La

con gelato

for honey), then take the winding Etna road through the olive and citrus groves and vineyards that thrive in the fertile soil to the base of the volcano (eerily

#### WHO'D LOVE IT?

Couples who want a stylish base from which to explore Sicily (you definitely room is at the far end of the apartment another couple or grandparents.

How to book A week at Casa alla Scala costs from £2,730 (sleeps six), including linen, towels and Wi-Fi (think sicily.com). The Think Sicily team can arrange provisions on arrival, day trips, cookery classes, an in-house cook and more. It's a 30-minute drive from Catania airport.

Travel

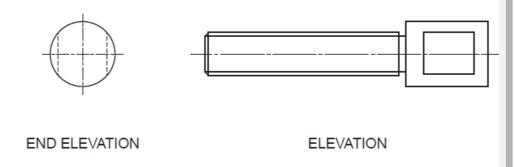
State the main reason for the use of British Standards conventions on drawings. Marks State the names of the British Standard conventions shown below.

State the names of the two types of sections shown at X and Y-Y on the drawing

- (i) The metric thread diameter 12 mm on the elevation.
- The flat surface at the right hand end of the component.

Sketch on the drawing below, using British Standard conventions.

The external thread detail on the end elevation.



State three factors that would influence the scale of a drawing.

(ii) .....

(i) .....

(iii) .....

What effect would the following scales have on a drawing.

(i) 2:1 ..... (ii) 1:2 .....

Drawing sheets are usually presented in one of two orientations. Sketch each orientation and state which orientation they are.

(i) Sketch

Orientation .....

(ii) Sketch

Orientation .....

## **Inveralmond Community High School Technical Department**