

Surname					Other Names				
Centre Number					Candidate Number				
Candidate Signature									

For Examiner's Use

General Certificate of Secondary Education
June 2008

**DESIGN AND TECHNOLOGY
(GRAPHIC PRODUCTS) (SHORT COURSE)
Written Paper
Foundation Tier**

3553/F

F



Thursday 19 June 2008 1.30 pm to 3.00 pm

For this paper you must have:

- a pen, a pencil, a ruler, an eraser, a pencil sharpener and coloured pencils.

You may also use marker pens and 45/60 degree set squares.

Time allowed: 1 hour 30 minutes

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- Answer the questions in the spaces provided.
- Show the working of your calculations.
- Detach the blue sheet from the back of this examination paper to use in between the sheets to prevent ink bleeding through to the next sheet.
- Do **not** hand in the blue sheet at the end of the examination.

Information

- The maximum mark for this paper is 100.
- The marks for questions are shown in brackets.
- All dimensions are given in millimetres unless otherwise stated.
- You are reminded of the need for good English and clear presentation in your answers.

Advice

- You are advised to answer the questions in this paper in the order in which they are written.

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Question	Mark	Question	Mark
1		5	
2		6	
3		7	
4			
Total (Column 1) →			
Total (Column 2) →			
TOTAL			
Examiner's Initials			

This question is about the environment and evaluation and is worth 17 marks.

You are advised to spend about 15 minutes on this question.

1 (a) A logo on a product made of material from a *sustainable forest* is shown in **Figure 1**.



This design has **two** design features. Study each feature and comment on its suitability for this environmental logo.

Feature 1: arrows

.....
.....
.....
.....

(3 marks)

Feature 2: representation of trees

.....
.....
.....
.....

(3 marks)

(b) The logo in **Figure 1** is to be re-designed and simplified.

(i) In the space below, sketch **two** ideas for a new sustainable forest logo with similar features to those in **Figure 1**.

(5 marks)

(ii) Using your best ideas from part (b)(i) above, produce a final presentation drawing of your new logo in the space below.

(6 marks)

Question 2 is about market researching and representing data and is worth 10 marks.

You are advised to spend about 10 minutes on this question.

2 A school wants to raise money by selling recordings of music performed by its students.

The Graphic Products department is to produce high quality packaging for the recordings.

To find out which recording format would be preferred, a questionnaire was sent to parents and students.

The results of the questionnaire are shown in the table opposite.

This data is to be shown as a pictograph.

Complete and colour the pictograph (**Figure 2**) using the data in the table.

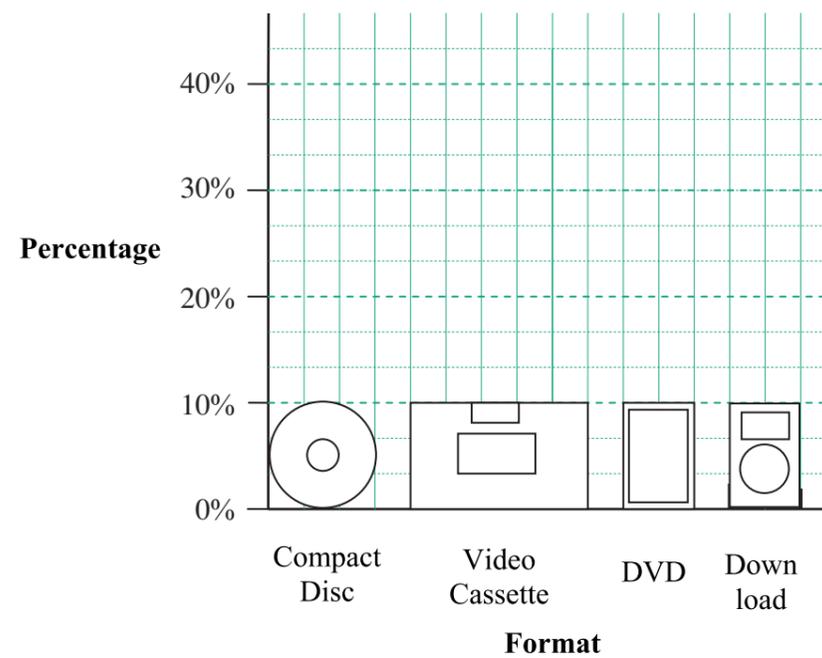
Each symbol in the pictograph represents 10%.

Marks will be awarded for:

- (a) accuracy of data (3 marks)
- (b) use of symbols (4 marks)
- (c) quality of colouring. (3 marks)

Key	Format	Percentage
	Compact Disc	40%
	Video Cassette	20%
	DVD	30%
	Download	10%

Figure 2

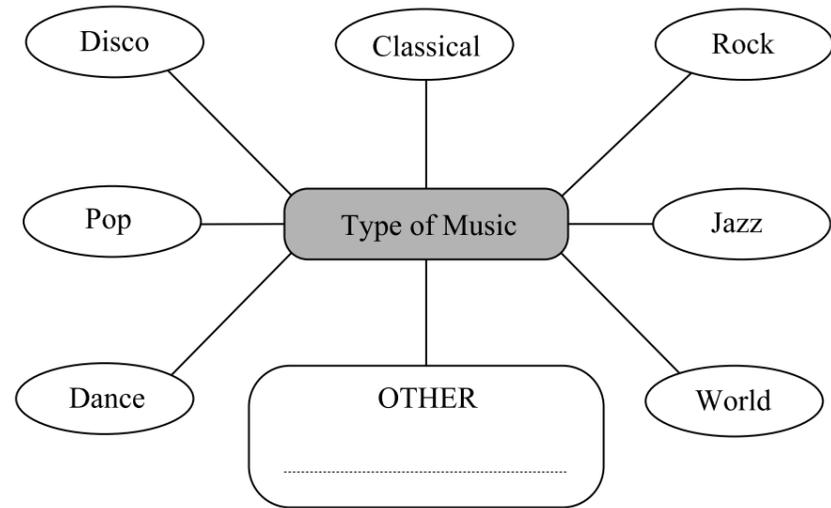


Question 3 is about typography and is worth 8 marks.

You are advised to spend about 10 minutes on this question.

3 The questionnaire showed that a Compact Disc (CD) was the preferred format for the school recording.

(a) Study the ideas web below showing different types of music.



(i) Choose a type of music to be included on the school's CD.
(If your favourite music is not listed, add it under OTHER.)

.....
(1 mark)

(ii) Sketch **two** suitable names for your CD. The names should be one or two words long.
Your best name will be printed on the front of the CD cover.

(2 marks)

(b) In the spaces below, sketch **two** different letter styles (fonts) for the best name of your CD.

Letter style 1

Letter style 2

(5 marks)

My best letter style is number:

This letter style will be used in Question 4.

This question is about developing a design and a presentation drawing and is worth 22 marks.

You are advised to spend about 20 minutes on this question.

- 4 The CD is packaged in a card sleeve (**Figure 3**). You are to develop a design for the front cover of the sleeve.

Complete **Table 1** opposite.

- (a) Sketch the development of a design for the front cover of the sleeve which reflects the type of music chosen in Question 3 (**Figure 4** and **Figure 5**). (7 marks)
- (b) Produce a coloured presentation drawing of your final design (**Figure 6**). Include the name and letter style chosen in Question 3. (12 marks)
- (c) Evaluate your presentation drawing. (3 marks)

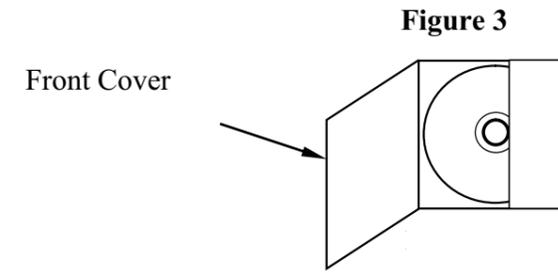
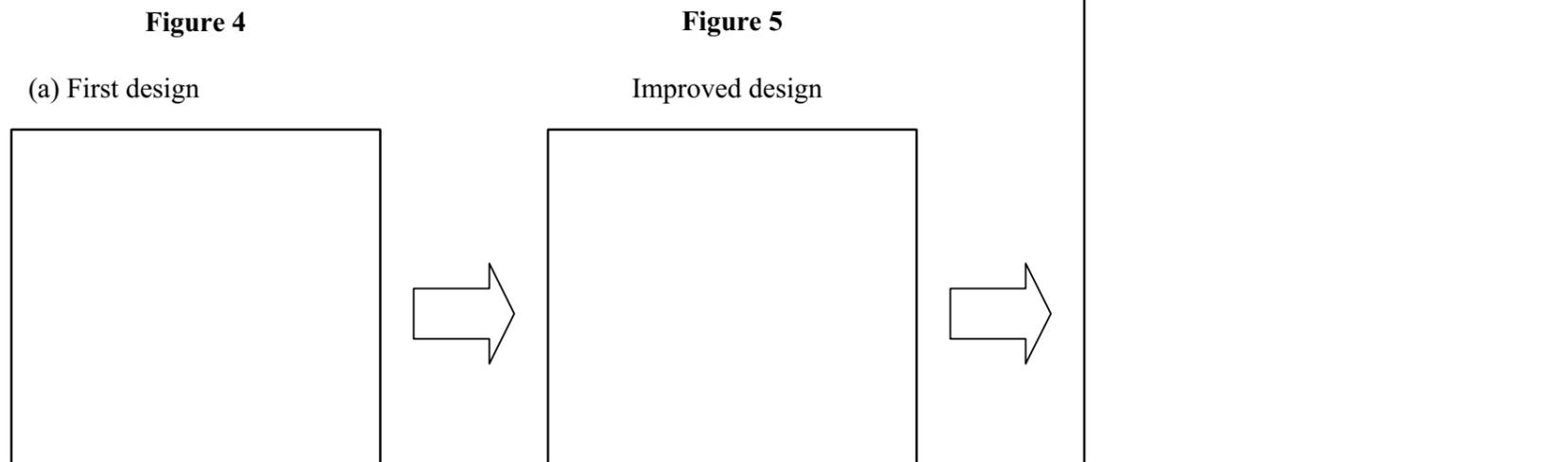


Figure 3

My chosen name for the CD from Question 3 is
My chosen type of music from Question 3 is



- (c) Evaluate your presentation drawing

.....

.....

.....

.....

.....

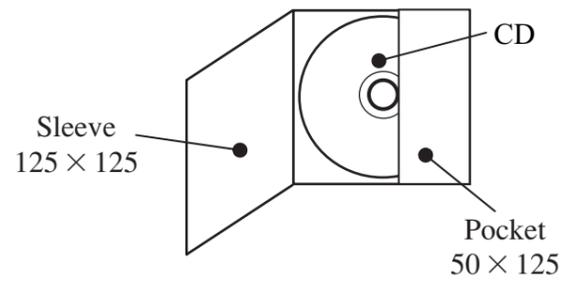
This question is about surface development (net) and dimensioning and is worth 12 marks.

You are advised to spend about 10 minutes on this question.

5 The CD is packaged in a card folder (Figure 7).

The sleeve is cut from one piece of thin board measuring 300 mm by 145 mm.

Figure 7



(a) Complete the *full size* surface development (net) of the sleeve (Figure 8) using the given key. All glue tabs are 10 mm wide. Do **not** include the CD. (10 marks)

(b) Complete the dimension. (1 mark)

(c) Complete the scale (Figure 9). (1 mark)

Figure 8

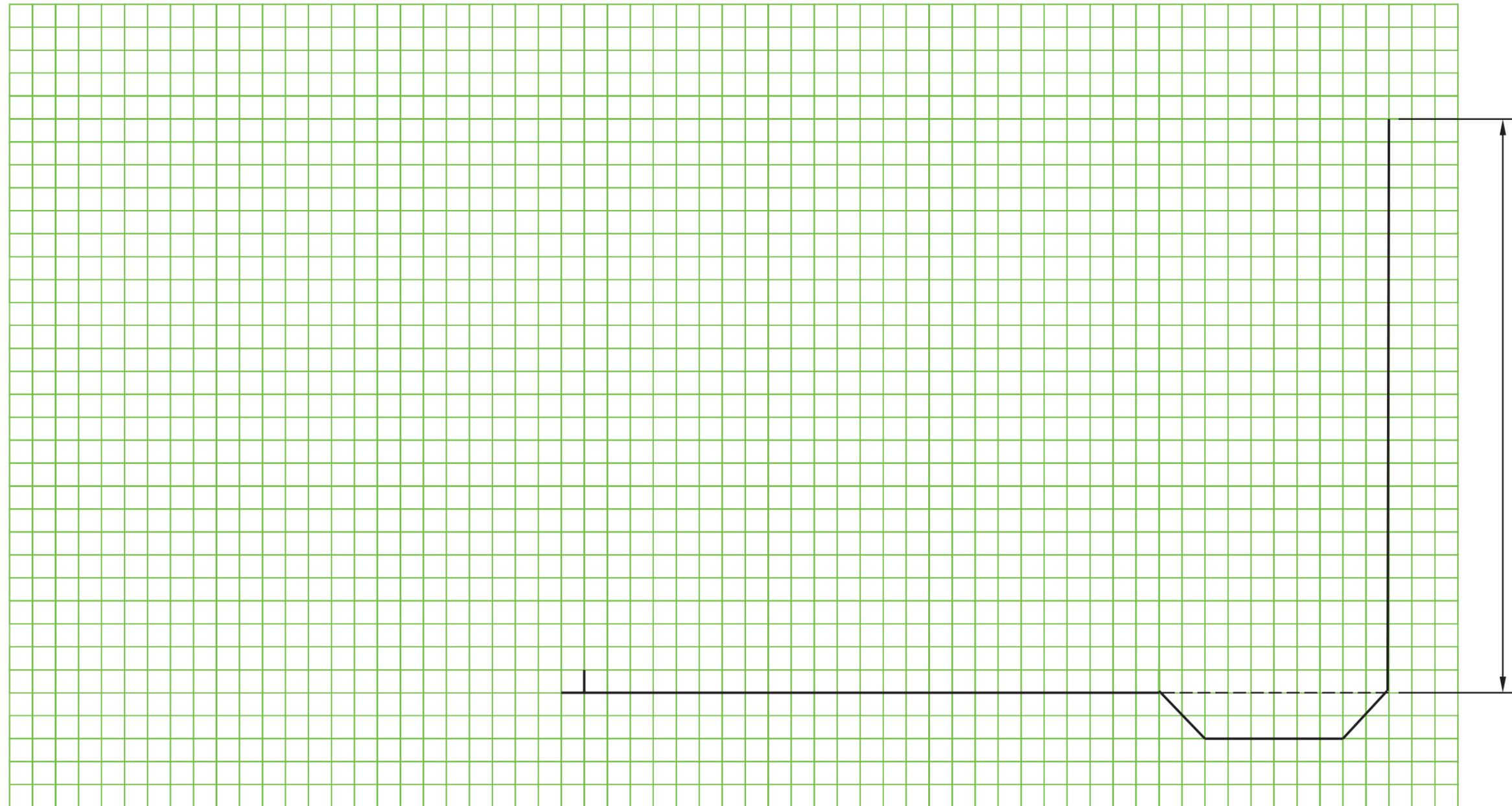


Figure 9

Scale _____ : _____

Key	
—————	Cut line
- - - - -	Fold line

This question is about the order of making and is worth 14 marks.

You are advised to spend about 10 minutes on this question.

6 The CD's card sleeve is to be made in the school's graphics studio.

(a) Study the stages (A to F) for making a prototype sleeve. They are **not** in the correct order.

Stages		Stages	
A	Cut out the shape	D	Apply glue
B	Crease the fold lines	E	Assemble the sleeve
C	Apply coloured image	F	Draw surface development

(i) Complete the table below to show the correct order for making a successful model. (4 marks)

(ii) Name a tool **or** piece of equipment used at each stage in the order of making.

Order of Making	Stage	Tools or Equipment Used
1	F	<i>A pencil</i>
2		
3		
4		
5		
6	E	<i>Paper clips to hold glued surfaces</i>

(4 marks)

(b) Explain 'Stage A – Cut out the shape' with sketches and notes.

(6 marks)

This question is about materials and is worth 17 marks.

You are advised to spend about 15 minutes on this question.

7 The CD sleeve can be made in a school's graphics studio.

(a) The sleeve is made from 200 gsm thin board.

(i) Give the full meaning of 200 gsm.

.....
.....
.....
.....

(3 marks)

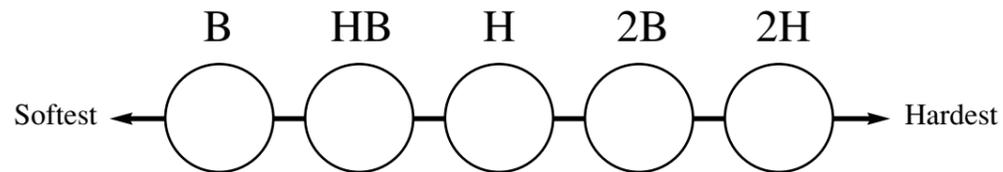
(ii) What would be the effect of using recycled board for the CD sleeve?

.....
.....
.....

(2 marks)

(iii) Arrange these grades of pencil in order of hardness of lead.

Write your answer in the circles below.



(3 marks)

(iv) When felt-tip pens are used on some kinds of paper the colour can 'bleed'. Explain the term 'bleed'.

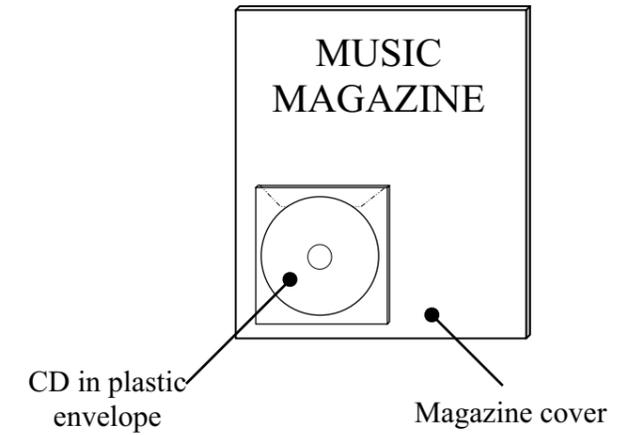
.....
.....
.....

(2 marks)

(b) CDs are often given away with magazines.

The diagram opposite shows a CD in a plastic envelope which is fixed to a magazine cover.

Using notes and sketches show how the CD could be attached to the magazine.



(5 marks)

(c) CDs and their packaging can be recycled. Explain the term 'recycled'.

.....
.....
.....

(2 marks)

END OF QUESTIONS

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