N5	FOR OFFICIAL USE National Qualification 2014	ns			Mark	
X735/75/01				Со	Gi mmuni	raphic cation
THURSDAY, 8 MAY						
1:00 PM - 2:30 PM					* X 7 3 5	7 5 0 1 *
Fill in these boxes and rea	ad what is printed	below.	Town			
Forename(s)	Surnam	ne			Number	of seat
Date of birth Day Month	Year	Scotti	sh candi	date num!	ber	

Total marks — 60

Attempt ALL questions.

Write your answers clearly in the spaces provided in this booklet. Additional space for answers is provided at the end of this booklet. If you use this space you must clearly identify the question number you are attempting.

All dimensions are in mm.

All technical sketches and drawings use third angle projection.

You may use rulers, compasses or trammels for measuring.

Use blue or black ink.

Before leaving the examination room you must give this booklet to the Invigilator; if you do not, you may lose all the marks for this paper.





1. A graphic designer for a football magazine is commissioned to design a chart or graph. It should display the information in the table below in a visually stimulating and easy to read manner.

English Premier League players' average annual basic wages from 2000–2010					
Season	Average annual basic wage				
2000–2001	£451,274				
2001–2002	£566,932				
2002–2003	£611,068				
2003–2004	£651,222				
2004–2005	£630,355				
2005–2006	£685,748				
2006–2007	£778,103				
2007–2008	£960,377				
2008–2009	£1,066,391				
2009–2010	£1,162,350				

- (a) State the most suitable type of chart or graph to use when presenting the information in the table above.
- (b) Explain one reason for using this type of chart or graph.

1

1

Total marks 2



Page two

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MARKS DO NOT THIS An advertising company has produced a promotional graphic to be used at a 2. sports stadium. The graphic will be placed on the advertising boards around the pitch. The initial layout is shown below. **MIN UTZ Only time will tell.**. Layout 1 (a) State one instance where harmony has been used in layout 1. 1 The graphic artist has decided to change the background colour to violet as shown below. **MIN UTZ Only time will tell**.... Layout 2 (i) Explain a reason for changing the background colour to violet. (b) 1 (ii) State whether violet is an advancing or receding colour. 1 (iii) Describe the effect the violet background colour has on the watch. 1

(coi	ntinued)	MARKS
	graphic artist wants to change the shade of violet used for the kground colour as shown below.	
	IN UTZ Only time will tell	
Lay	out 3	
(c)	Explain how to create a shade of violet.	1
(d)	Describe two examples of unity in layout 3 .	2
	Method 1	
	Method 2	
(e)	Describe how the desktop publishing technique 'bleed' has been used in layout 3 .	1
(f)	Describe how the desktop publishing technique 'reverse' has been used in layout 3 .	1
	,	

Page four

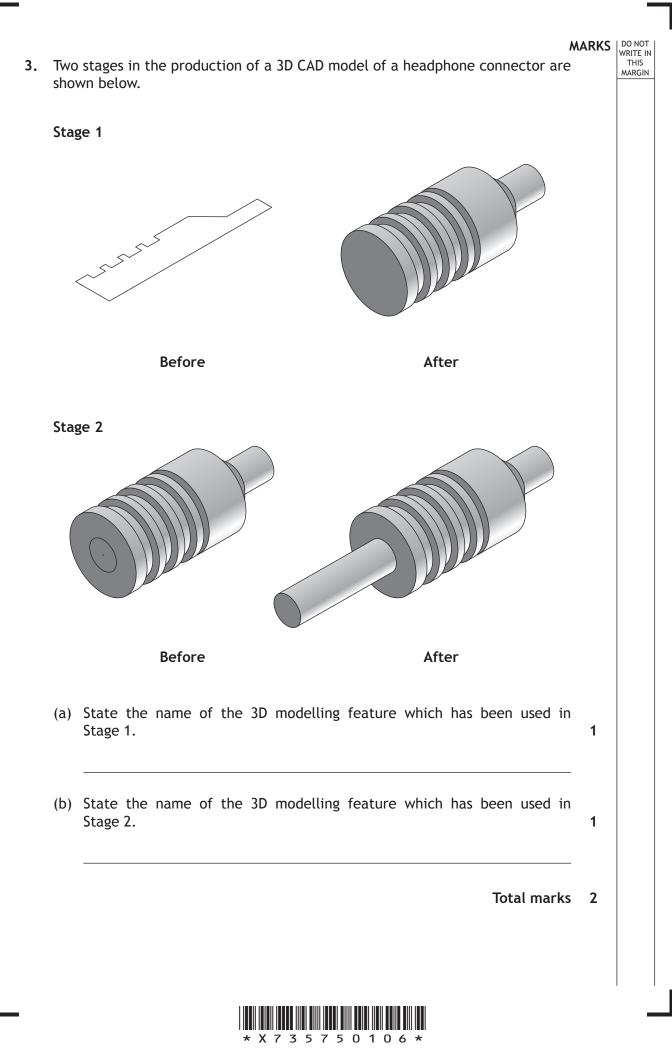
2.	(coi	ntinued)	MARKS	DO NOT WRITE IN THIS MARGIN
		owners of the sports stadium decide to show the advert on the stronic advertising boards.	r	
	(g)	State two environmental benefits of advertising this way.	2	
		Benefit 1		
		Benefit 2	_	
		Total mark	s 11	

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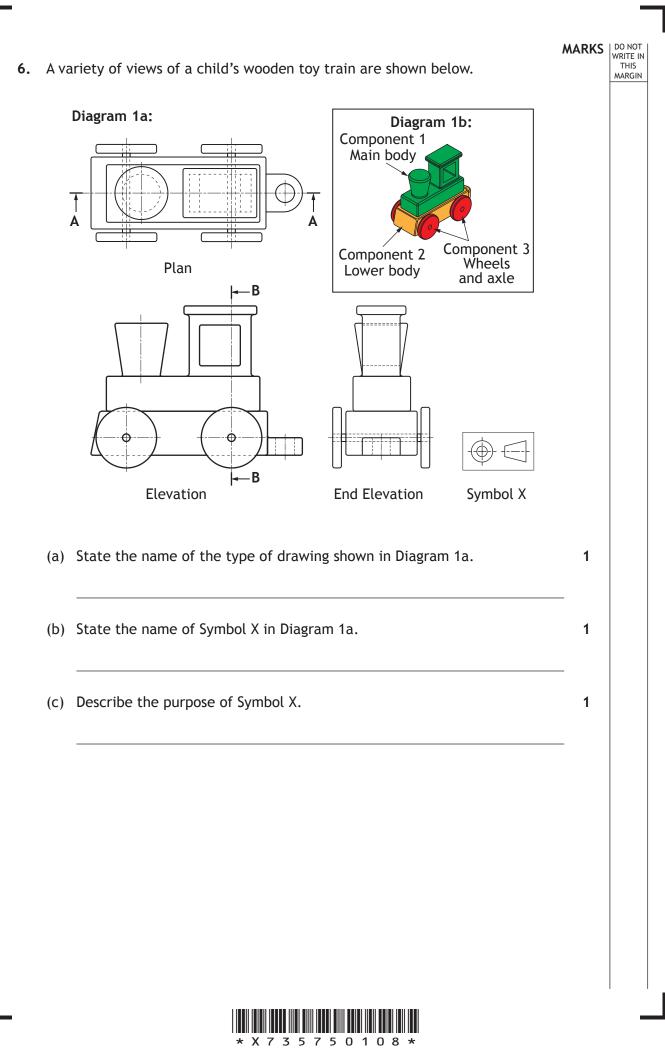
Page five



Page six

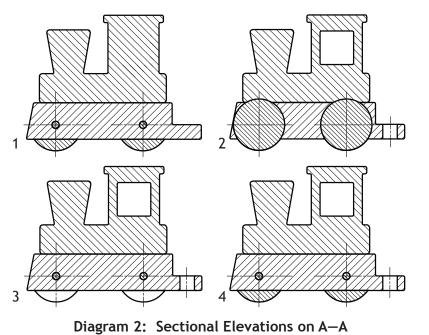
THIS Two building symbols which are commonly found in sectional views of 4. buildings are shown below. Ż 17. Symbol 1 Symbol 2 State the name of: 2 Symbol 1 _____ Symbol 2 5. A 3D CAD model of a new craft knife design is shown below. State three disadvantages to a design company of using 3D CAD modelling instead of traditional manual modelling. 3 1_____ 2_____ 3_____ X735750107*

Page seven



Page eight

Four potential Sectional Elevations of the toy train views are shown below.



(d) State, with reference to Diagram 1a and Diagram 2, the correct Sectional Elevation on A-A.

Four potential Sectional End Elevations of the toy train views are shown below

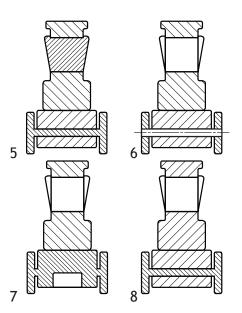


Diagram 3: Sectional End Elevations on B–B

(e) State, with reference to Diagram 1a and Diagram 3, the correct Sectional End Elevation on B–B.

1

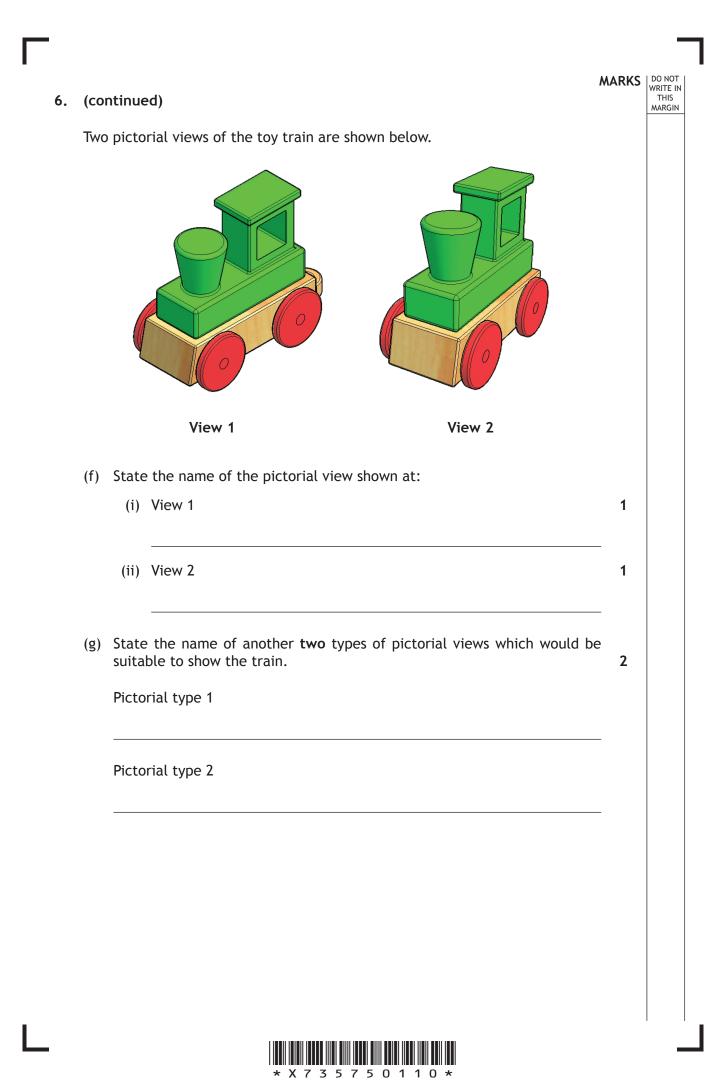
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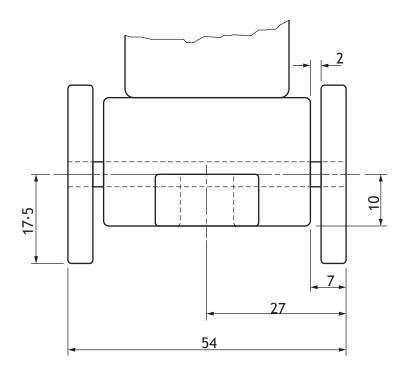


Page nine

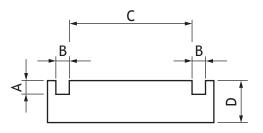


Page ten

A partial End Elevation complete with relevant dimensions (Diagram 4a) of the toy train is shown below. An End Elevation of the train track is shown (Diagram 4b).











(h) State, with reference to Diagram 4a and 4b, a dimension for:

*



X 7 3 5 7 5 0 1 1 1 *

Page eleven



The train track can be made up with the four different track tiles shown in Diagram 5.

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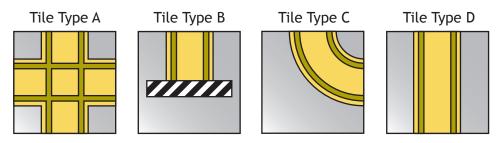


Diagram 5: Example Track Tiles

Diagram 6 shows a completed track layout using a minimum number of tiles.

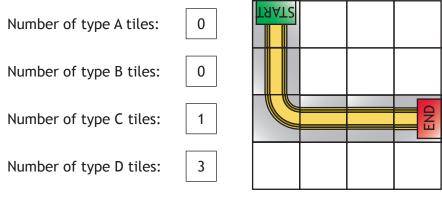
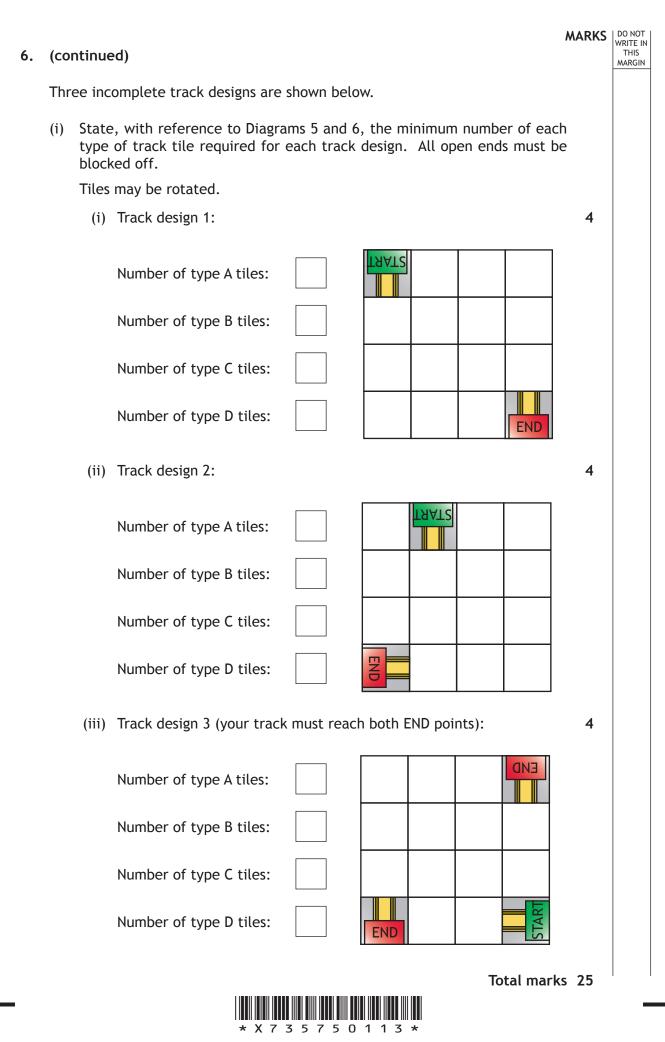


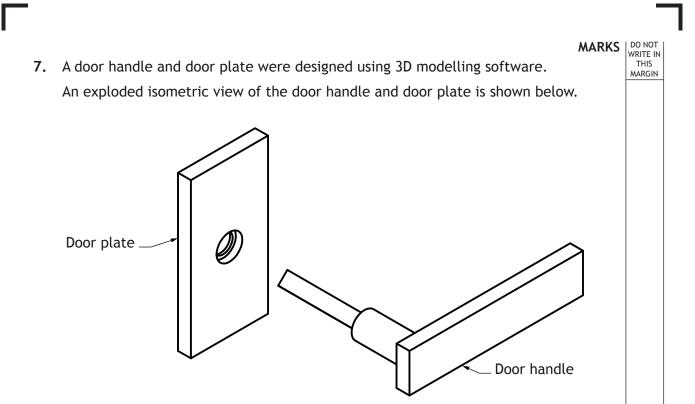
Diagram 6: Completed Track Layout



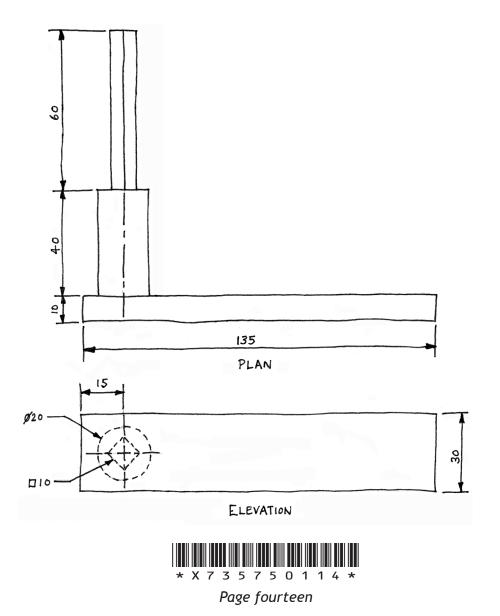
Page twelve

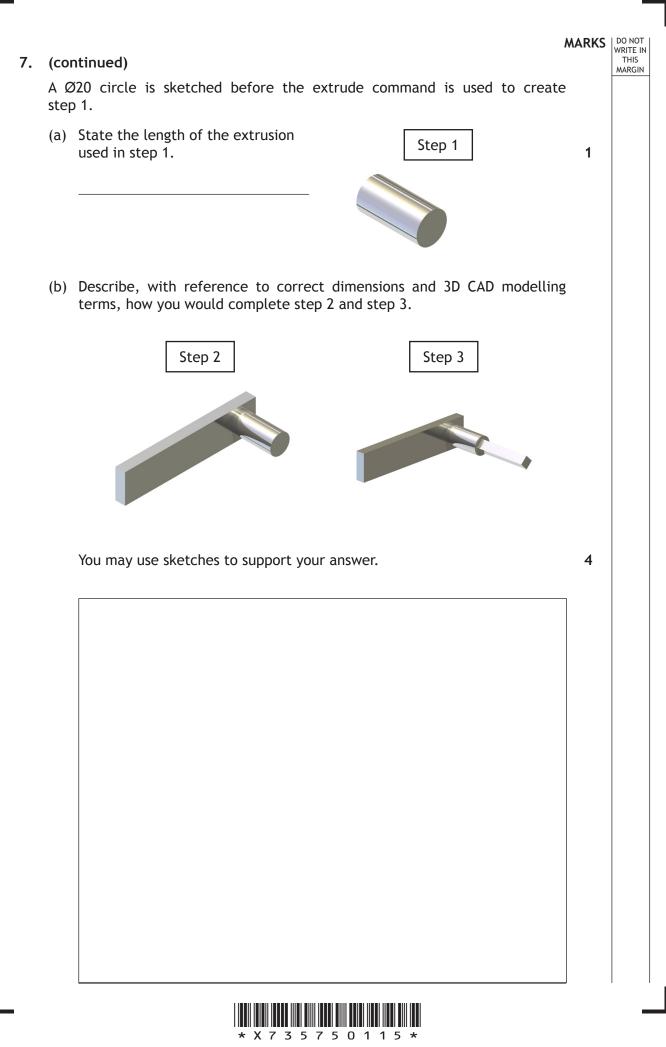


Page thirteen



A preliminary orthographic sketch of the door handle (not to scale) is shown below.



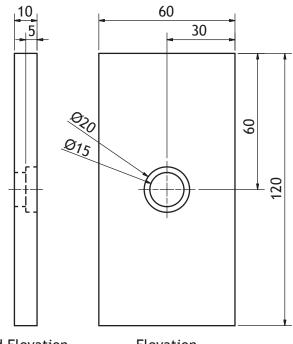


Page fifteen

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3

The door plate is needed to secure the handle to the door. The production orthographic drawing (not to scale) for the door plate is shown below.



End Elevation

Elevation

(c) Describe, with reference to correct dimensions and 3D CAD modelling terms, how you would create the door plate.

You may use sketches to support your answer.

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Page sixteen

*

In order to manufacture the door plate, the back of the plate is hollowed out as shown below.



- (d) State the name of the 3D modelling technique used to hollow the door plate.
- (e) State **three** advantages of computer aided drawing over manual drawing methods.

Advantage 1_____

Advantage 2_____

Advantage 3_____

When producing the door plate the CAD command 'zoom' is used.

(f) State one way in which the 'zoom' command would be useful.

Total marks 13

[Turn over for Question 8 on Page eighteen



Page seventeen

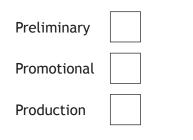
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- 8. Two graphic items A and B are shown below.
 - (a) Indicate, using a tick (✓), if Graphic Item A is:





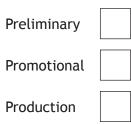
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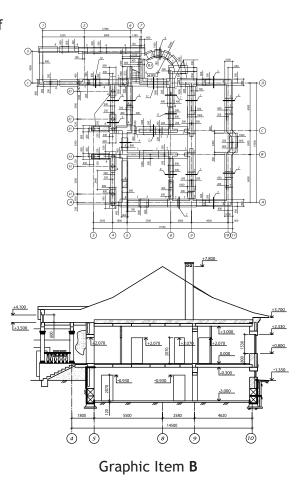
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1

Graphic Item A

(b) Indicate, using a tick (✓), if Graphic Item B is:





Total marks 2

[END OF QUESTION PAPER]



Page eighteen

ADDITIONAL SPACE FOR ANSWERS

MARKS DO NOT WRITE IN THIS MARGIN



Page nineteen

ADDITIONAL SPACE FOR ANSWERS

MARKS DO NOT WRITE IN THIS MARGIN



Page twenty

ACKNOWLEDGEMENTS

Question 2-103887632 AlexRoz/Shutterstock.com

Question 8(a)-106511447 Lena Pan/Shutterstock.com

Question 8(b)-113272513 Shutterstock.com