

An engineering company wants to test out two new parts for an expensive drilling machine. What benefits might testing it using CAD software bring? (4)

(a)	State the main reason for the use of British Standards conventions on drawings.				
(b)	State the nam	es of the Briti	sh Standard conventions shown below.	1	
	(i) (i)			1	
	(ii) A	A/F		1	
	(iii)	R		1	
	(iv)	Ø		1	

S	ec	tic	on	I
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Marks

- (d) Sketch on the drawing below, using British Standard conventions.
 - (i) The metric thread diameter 12 mm on the elevation.
 - (ii) The flat surface at the right hand end of the component.
 - (iii) The external thread detail on the end elevation.

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(c) State the names of the two types of sections shown at X and Y-Y on the drawing shown below.

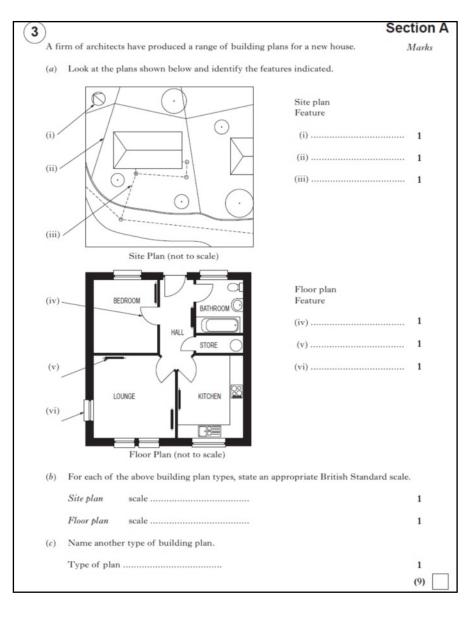
END ELEVATION

ELEVATION

Higher Graphics Easter revision

Name:



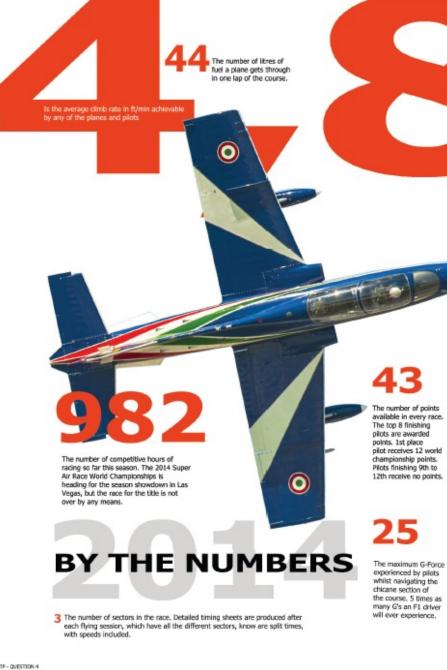


	1 A supplementary f	bage is included at the end of Section A for use if extra space is red	quired.			
	An engineer's offic	ce uses a range of Preliminary and Production graphics.	Marks			
	Explain the purpose	Explain the purpose of each type of graphic and give one example of each.				
	Preliminary Pu	rpose				
			1			
	Ex	ample	1			
	Production Pu	rpose				
			1			
	Ex	ample	1			
	2		(4)			
	The 3Ps are used extensively in the design	Section A gn, manufacture and marketing within the Marks				
	construction industry. Identify the type, and explain the purpo					
	(a)	Type 1 Purpose				
	The state of the s	1				
	(b) d	Type 1				
		Purpose				
	500					
	Alexandria (constitution)	1				
	Alternative designs for extension					
	(c) 18·0m	Type 1				
	8-5m 5-5m	Purpose				
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4	5.1	1	cal Department	.		

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Technical Department



The length, in metres of the EDGE 540 plane, the wingspen totals 7.44m and has a top speed of 426.5kph. Only 230 knots.

In seconds, is the average lap time recorded by the pilots in the previous 7 races, the fastest lap was achieved by Austrian pilot Hannes Arch in Abu Dhabi with a time of 74.34 seconds.

12

The number of pilots competing in the Master Class category in eight races across the globe for the title of 2014 Super Air Race World Champion. Pilots can win World Championship points at each race and the pillo: with the most points after the last race of the season becomes the Super Air Race World Champion.



Paul Bonhomme leads the standings by 1 point. He is the most successful pilot in the history of the Super Air Race. The celebrated British Ace has won a record 13 races and been on the podium 36 times in the 50 races since the sport was created in 2003.

France 109 years ago in 1905 and is a non-governmental and non-profit-making organisation. They recognize the Super Air Race World Championships as an official World Championship.

The age of the oldest pilot to compete in the Super Air Race World Championship. The next oldest contender is 36...



The number of replacement engines planes can get through in a year of competition.



The number of world nations represented at the 2014 Super Air Race World Championships. So far 12 different nation's pilots have taken home one of the top 3 places in the championships - which undoubtedly gathers together the world's greatest stunt pilots.

The time it takes, in seconds, for a pilot to reach 2,000ft above sea-level from a standing-still take-off.

Stunt planes 2014 3

DTP - QUESTION 4

RCP03011996 1304 Technical Department

Name:

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1. Give two examples of **WHITE SPACE** in this layout, and what effect does this have on the page (4).

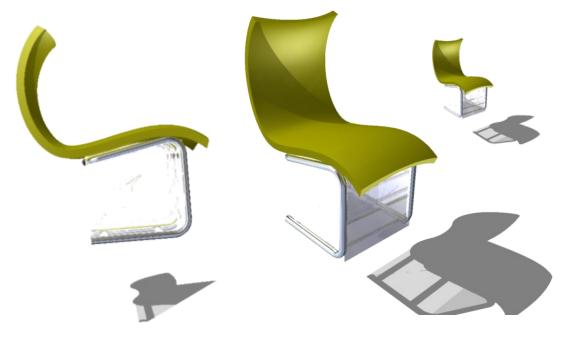
2. The designer has used **TEXT WRAP** in the layout. Identify two instances where this occurs, and what Design Principle this results in. (3)

3. State an instance where **SHAPE** has been adopted, and what effect this has on the page. (2)

4. The designer has given the impression of **DEPTH** in several instances here. Give two examples of this, explaining how this has been achieved using **DTP techniques.** (4)

5. How has the designer applied the design element of **VALUE** here, and what effect does it have? Give two examples(4)

6. What is the most dominant element of the page, and how has this been achieved?



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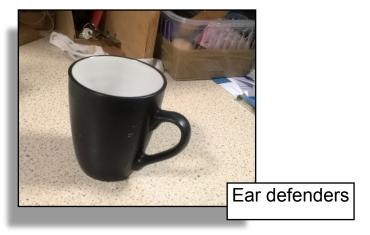


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