

## READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page and the two Answer Sheets
Do not use staples, paper clips, highlighters, glue or correction fluid.
DO NOT WRITE IN ANY BARCODES.

## Section A

Answer all questions in this section (A1, A2 and A3).
Section B
Answer one question in this section (B4 or B5).
You may use a calculator.
Draw your answers in the spaces provided on the answer sheets.
All construction and projection lines must be clearly shown.
All dimensions are in millimetres.
At the end of the examination, insert both sheets into this booklet.
The total of the marks for this paper is 50 .
The number of marks is given in brackets [ ] at the end of each question or part question.

[^0]
## Section A

Answer all questions in this section
A1 The five sketches below show road and information signs used in a theme park.
(i) Use instruments to draw the outline shapes in the boxes below.
(ii) Add below each sign the name of the outline shape drawn. One name has been written in.

$\varnothing 46$


-     -         -             -                 -                     - 
-     -         -             -                 -                     -                         - 
-     -         -             -                 -                     -                         - 

[4]

$35 \times 45$



52 SIDE

_ - _ _ _ _ _ -


22 SIDE

octagon

A2 An incomplete direction sign for 'TOILETS' is drawn to the right
Complete the direction sign by adding the four remaining letters.
All the letters must be the same height, spacing and style as those given.
[6]


A3 A clock tower for a children's theme park is drawn to a scale of 1:10 in the orthographic views to the right.
(a) Draw an isometric view of the clock tower in the space indicated. The drawing should be to the same scale and all sizes should be taken from the given orthographic views. The clock face appears on one side only.
(b) Apply pencil shading to enhance your isometric drawing.
[3]



## Section B

Answer either question B4 or B5.
B4 A self-assembly rocket from a theme park gift shop is shown below. The rocket is glued together from pre-cut pieces of polystyrene, card tube and foamboard. The rocket stands on a pentagonal foamboard


0445/02 May/June $2007 \quad 1$ hour
(a) On the centre lines given to the right, construct, full size, in third angle projection:
(i) the elevation of the rocket viewed from $\mathbf{X}$; you must include the tail fins.
The top of tube $\mathbf{A}$ has been drawn for you. [10]
(ii) a complete plan of the rocket on the centre lines given;
[5]
(iii) the regular pentagonal base cut from a circular disk of $\varnothing 100$ on the plan only.
(b) Use sketches and notes in the space below to show how the tail fin pieces are joined together and fixed to the $\varnothing 30$ tube.

## Plan view


(©) $-\square$ view in direction of arrow $\mathbf{X}$
a) Draw to a scale of 1:2 in first angle orthographic projection, the Plan and an End View of the desk tidy.
(b) Construct, to the same scale a one piece development (net) of the promotional Desk Tidy. Include the top, base and all flaps. Ignore the thickness of the card.



[^0]:    This document consists of an A3 cover booklet and $\mathbf{2}$ inserted A3 sheets.

