1 (a) A sketch of a plastic yoghurt pot is shown on the right.
On the centre lines below construct a full size isometric drawing of the yoghurt pot.

top:

top circl | top circle: |
| :--- |
| bottom circle: |
| $\varnothing$ |
| $\varnothing$ | botiom circle: ${ }_{90}^{\varnothing 4}$

height: Estimate any missing dimension
(d) The top of the yoghurt pot is sealed with a foil closure that shows the flavour of the yoghurt. Complete the table below by:
(i) Adding the remaining half of the bananas;
[2]
(ii) Adding a strawberry in the same style as the cherries.
[3]

| cherry |
| :---: |
| banana |

(e) Three yoghurt pots are packaged in a card sleeve.

Complete the drawing of the development (net) of the card sleeve shown below.
[8]

(b) (i) Name the manufacturing process used to make the plastic yoghurt pot.
(ii) State two reasons why this manufacturing process is suitable for producing plastic yoghurt pots.

1. ........................................................................................
..[1]
(c) The symbol on the right is moulded into the base of the plastic yoghurt pot.

Explain the reason for putting this symbol on the plastic yoghurt pot


$\qquad$
$\qquad$
(f) A graph is one method of showing the annual sales of different flavour yoghurts.

State two other methods of showing this information.



## Candidate Surname

## Other Names


Candidate Numbe
$\qquad$
$\qquad$


3 Two parts of a plastic toy building kit are shown on the right.
(a) (i) Render part A to look like shiny plastic. [3]
(ii) Add thick and thin lines to enhance the appearance of part B. [4]
(iii) State two reasons why plastic is a suitable material for the toy building kit.

1. ..............................................................................[1]
$\qquad$
(b) Complete the drawing below to show a sectional view of part A and part B slotted together.


$\qquad$
$\qquad$
$\qquad$
$\qquad$
(d) A sketch of a 'T' shaped part of the plastic toy building kit is shown on the right.
Complete the side view below to show a ' $T$ ' shaped part of the plastic
toy building kit.

(c) The sketch below of a portion of cheese is to be used in a design for a cartoon character called Charlie Cheese. In the space on the righ
sketch a design for the cartoon character.

(c) The parts of the plastic toy building kit are designed to be 'push fit'
[2]


## Cambidge Cambridge International Examinations <br> Cambridge International Cambridge Ordinary Level

OLevel
CDt: design and communication Paper 1
No Additional
Qucles 2016
(b) Orthographic views of a circular cheese with a portion removed are shown below.
Draw a $45 / 45$ degree planometric view of the cheese.
[7]

front view
 ©i
A cheese manufacturer wishes to divide different shaped cheeses into individual portions.
(a) Complete the table below to show four different shaped cheeses divided into portions by:
(i) completing the outer square and dividing into four equal squares;
(ii) drawing a $\varnothing 40$ circle and dividing into four equal sectors;
(iii) drawing an octagon on the given base and dividing into eight equal parts;
(iv) dividing the equilateral triangle into three equal triangles.
[4]
${ }^{[4]}$

| [ |  |  |  |
| :---: | :---: | :---: | :---: |

5 The set of four steps shown in the orthographic views on the right are made from ten of the blocks
shown below.
shown below.

(a) Complete the estimated two point perspective drawing of the steps below.
[10]


Adesign for a logo for a recruitment agency is shown on the right.
(a) Complete the drawing of the logo below.


WORLD
(b) The five stages in a recruitment process are:

> 1. Advertise eob 2. Read applications 3. Invite candidates 4. Interview 5. Offer job.
(i) Complete the flow chart below to show the stages in the recruitment

(ii) Describe where and why a decision box would be added to the flow chart
$\qquad$
$\qquad$
(c) The display below is to be used by the recruitment agency.

Add sketches and notes to the drawing below to show how a plat cam could be used to make the middle person move up and down as a handle is turned.


