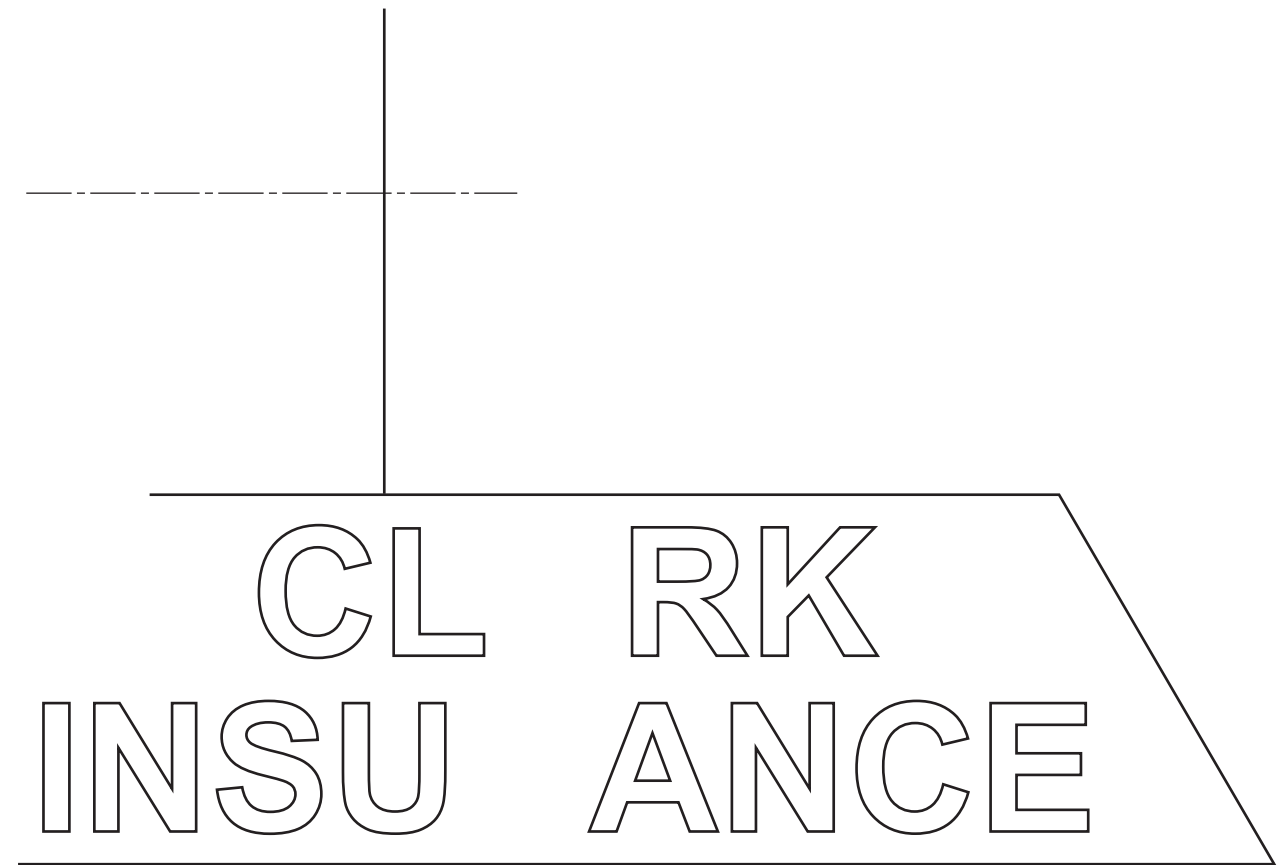
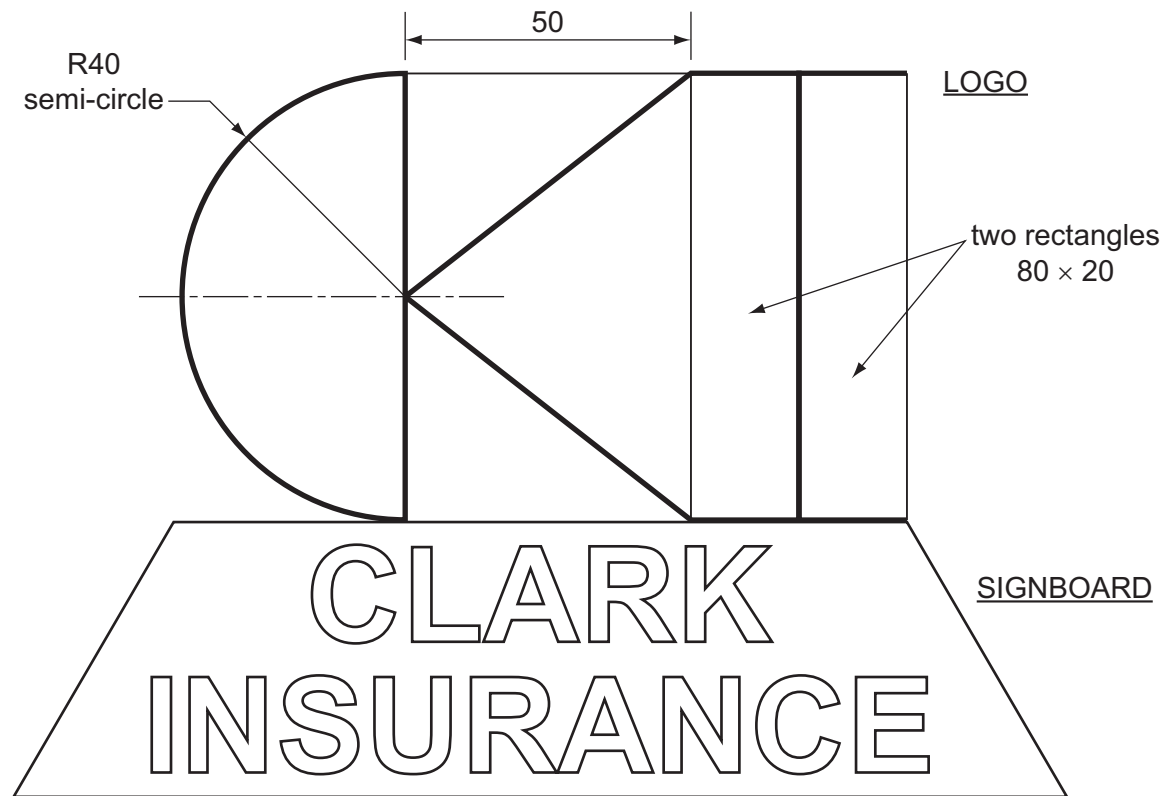


Section A

Answer **all** questions in this section.

A high-street insurance company is called 'CLARK INSURANCE'. The insurance company has a logo and signboard that is made up from geometrical shapes depicting the letters **C**, **K** and **I** of the name as shown in the drawing below.



A1 Complete the full-size view of the logo started on the right by drawing:

- (a) the semi-circle that represents the letter **C**; [2]
- (b) the triangle that completes the letter **K**; [2]
- (c) the two rectangles required to complete the letter **I**; [4]
- (d) thick lines to enhance the letters **C**, **K** and **I**. [1]

A2 (a) Complete the signboard for CLARK INSURANCE by adding the **two** missing letters. All the letters must be to the same height and style as those given. [4]

- (b) Complete the quadrilateral border to the signboard so that the shape is symmetrical. [2]

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Candidate's Number

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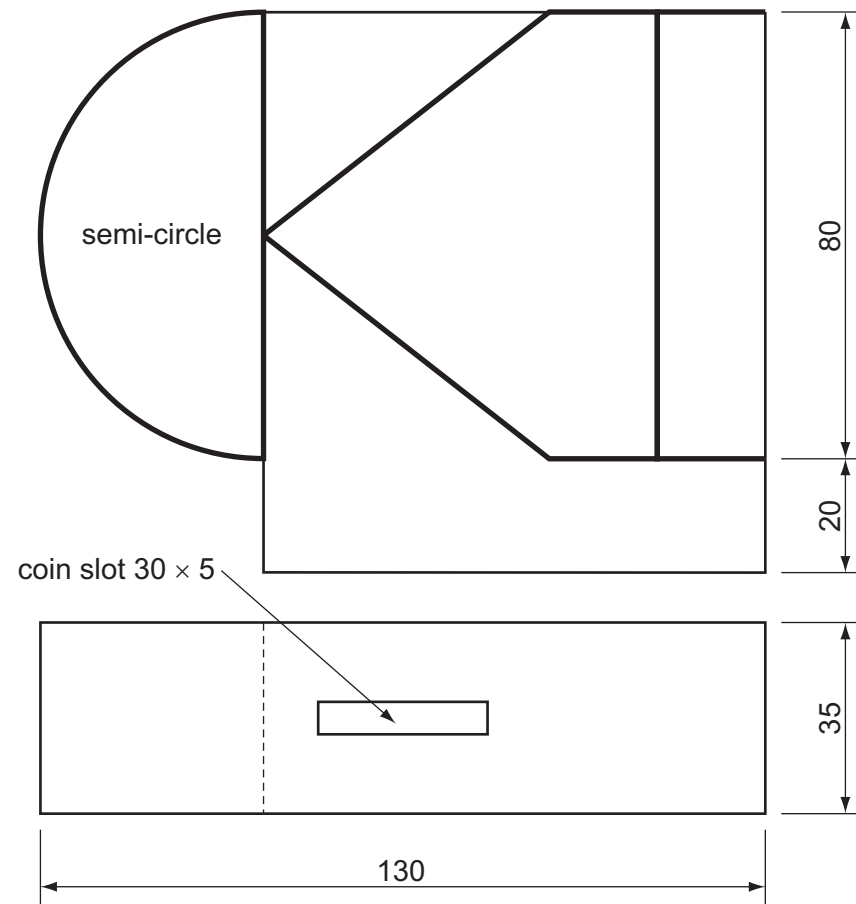
Other Names

[Turn over

For
Examiner's
use

A3 A charity collection box for customer use is shown in orthographic views below.

Lines are printed on the box to highlight the letters **K** and **I**.



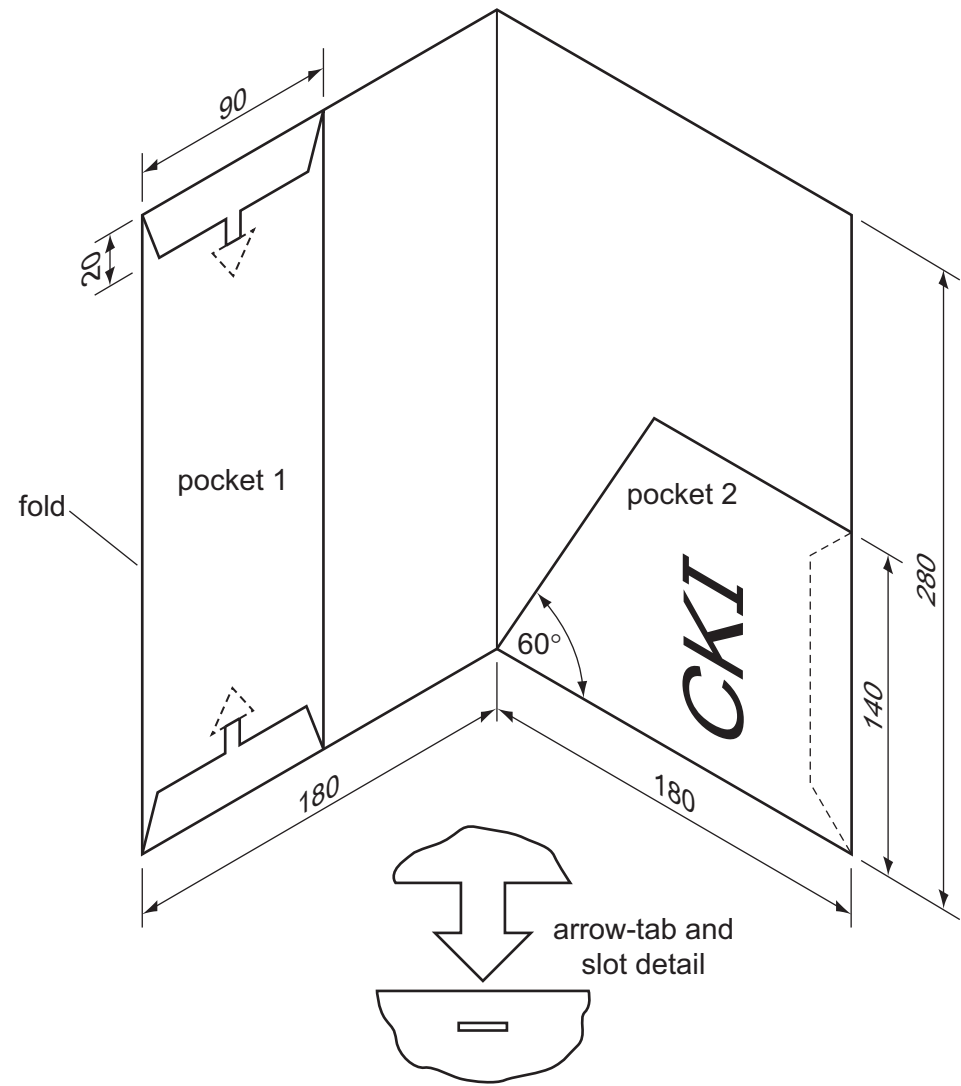
- (a) In the space to the right, draw a full-size isometric view of the collection box. [7]
- (b) Add to your isometric drawing the printed-on lines that highlight the letters **K** and **I**. [2]
- (c) Draw the 30 × 5 coin slot on the correct face of your isometric collection box. [1]

Section B

Answer **either** question **B4** or **B5**.

B4 The CLARK INSURANCE office uses a card folder for customers' documents. The folder is made from a one-piece development of thin card. The card is folded to provide two document pockets as shown in the drawing below.

The folder uses arrow-tabs and slots to form pocket 1. Pocket 2 is formed by the use of a glue tab.



- (a) In the space to the right, draw to a scale of 1:2 a one-piece development (net) of the folder including the glue tab for pocket 2. [13]
- (b) Add to your development two arrow-tabs and slots for pocket 1. [8]
- (c) Write the letters **C K I** in the correct orientation on the correct face of your development. [4]

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B5 The CLARK INSURANCE company sells different types of insurance. The sales on one particular day are listed below.

(a) In the space below, draw and label a two-dimensional pie chart to show the sales of each type of insurance on this day. [7]

| <u>Type of insurance</u> | <u>Sales</u> |
|--------------------------|--------------|
| Car insurance | \$6000 |
| Buildings insurance | \$3000 |
| House contents insurance | \$4500 |
| Personal insurance | \$1500 |
| Travel insurance | \$2250 |
| Pet insurance | \$ 750 |

(b) The table shows the number of customers who purchased insurance during one particular week in 2012.

(i) In the space below, draw a suitable two-dimensional bar chart to show the TOTAL number of customers each day over the five days of this week. [3]

| Day of the week | Monday | Tuesday | Wednesday | Thursday | Friday |
|----------------------------|---------------|----------------|------------------|-----------------|---------------|
| domestic customers | 550 | 650 | 800 | 850 | 950 |
| corporate customers | 450 | 600 | 650 | 500 | 850 |
| TOTAL | 1000 | 1250 | 1450 | 1350 | 1800 |

(ii) In the space below, draw a three-dimensional bar chart to show the numbers of each type of customer over the five days of this week. [15]