

MARK SCHEME for the May/June 2013 series

0445 DESIGN AND TECHNOLOGY

0455/23

Paper 2 (Graphic Products), maximum raw mark 50

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Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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Section A

- A1 (a)** Semi circle evident (1)
Ø 80 (1)
- (b)** Triangle evident (1)
80 base and 50 apex (1) [2]
- (c)** Two rectangles (1 + 1) (2)
80 × 20 rectangles (1 + 1) (2) [4]
- (d)** Thick line enhancement (1) [1]
- [Total: 9]
- A2 (a)** Accuracy and proportion of:
A (1)
R (1)
Spacing (1)
Height (1) [4]
- (b)** Border complete (1)
Symmetrical angle (1) [2]
- [Total: 6]
- A3 (a)** Height of rectangular base is 20 (1)
Width of rectangular base is 90 (1)
Height of C & K 80 (1)
- Semi circle plots evident (1)
Semi circle drawn to candidate's plots (1)
Repeat curve C (1)
Base evident below curve of C (1) [7]
- (b)** Printed line for **K** (1)
Printed line for **I** (1) [2]
- (c)** Coin slot 30 × 5 on correct face (1) [1]
- [Total: 10]

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Section B

B4 (a) Development

- 4 faces development shown (4×1) (4)
- Fold in flap pocket 1 evident (1)
- Fold over flaps top & bottom to pocket 1 (on back, not on flap) (1)
- Flaps 90×20 to scale (2×1) (2)
- Fold up flap to pocket 2 evident (1)
- Fold up flap attached to correct face and in correct orientation (1)
- Fold up flap has glue flap correct (1)
- Fold up flap 140×180 to scale (1)
- Fold up flap 60° angle (1) [13]

(b) Arrow-tabs and slots

- Arrow and neck correctly drawn (2)
- Slot size to match neck (1) dist (1) (2)
- Two arrow-tabs on back (2×1) (2)
- Two arrow-tabs on fold over laps (2) [8]

(c) Letters (award only on development)

- C K I** added (1)
- Appropriate size (1)
- On correct face (1)
- In correct orientation (1) [4]

[Total: 25]

B5 (a) Two dimensional Pie chart

- Circle drawn (1)
- Divided into 6 (1)
- Correct divisions 120/60/90/30/45/15; 2 correct (1), 3 correct (2) 4/5 correct (3)
- Clear labels to correct sector (1)
- Correct quantity to labels (1) [7]

(b) (i) Two dimensional bar chart

- Suitable scale selected (1)
- Information correctly plotted ($\times 5$) (1)
- Labels evident (days of week) (1) [3]

(ii) Three dimensional bar chart

- 3D chart (1)
- Suitable scale selected (1)
- Vertical scale labelled 'customers' (1)
- Two rows of columns (1)
- Corporate data at the front (1)
- Domestic data plotted to scale (5×1) (5)
- Corporate data plotted to scale (5×1) (5) [15]

[Total: 25]