MARK SCHEME for the May/June 2013 series

0445 DESIGN AND TECHNOLOGY

0455/23

Paper 2 (Graphic Products), maximum raw mark 50

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

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

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



| | Page 2 | | Mark Scheme | Syllabus | Paper | | | |
|----|-----------|---------------------------------------|---|----------|-------------|--|--|--|
| | | | IGCSE – May/June 2013 | 0445 | 23 | | | |
| | Section A | | | | | | | |
| A1 | (a) | Semi circ Ø 80 (1) | rcle evident (1)) | | [2] | | | |
| | (b) | | e evident (1) and 50 apex (1) | | [2] | | | |
| | (c) | | tangles (1 + 1) (2) rectangles (1 + 1) (2) | | [4] | | | |
| | (d) | Thick line | e enhancement (1) | | [1] | | | |
| | | | | | [Total: 9] | | | |
| A2 | (a) | Accuracy A (1) R (1) Spacing | ey and proportion of: | | | | | |
| | | Height (1 | 1) | | [4] | | | |
| | (b) | | complete (1) trical angle (1) | | [2] | | | |
| | | | | | [Total: 6] | | | |
| A3 | (a) | Width of | of rectangular base is 20 (1) f rectangular base is 90 (1) of C & K 80 (1) | | | | | |
| | | Semi circ Repeat c | cle plots evident (1) cle drawn to candidate's plots (1) curve C (1) rident below curve of C (1) | | [7] | | | |
| | | Dase evi | ident below curve of C (1) | | [7] | | | |
| | (b) | | line for K (1) line for I (1) | | [2] | | | |
| | (c) | Coin slot | t 30 \times 5 on correct face (1) | | [1] | | | |
| | | | | | [Total: 10] | | | |

| | Page 3 | | | Mark Scheme | Syllabus | Paper | | | |
|-----------|--------|---|--|---|----------|--------------------|--|--|--|
| | | | | IGCSE – May/June 2013 | 0445 | 23 | | | |
| Section B | | | | | | | | | |
| B4 | (a) |) Development 4 faces development shown $(4 \times 1) (4)$ 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 $(2 \times 1) (2)$ 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) | | | | | | | |
| | (b) | Arro Slot Two | ow an size arro | bs and slots ad neck correctly drawn (2) to match neck (1) dist (1) (2) pw-tabs on back (2×1) (2) pw-tabs on fold over laps (2) | | [8] | | | |
| | (c) | СК Арр On | I ad ropria | award only on development) Ided (1) ate size (1) ate face (1) at orientation (1) | | [4] [Total: 25] | | | |
| B5 | (a) | Two Circ Divi Corr Clea Corr | [7] | | | | | | |
| | (b) | (i) (ii) | Suita Infor Labe 3D c Suita Verti Two Corp Dom | dimensional bar chart able scale selected (1) rmation correctly plotted (\times 5) (1) els evident (days of week) (1) ee dimensional bar chart chart (1) able scale selected (1) ical scale labelled 'customers' (1) rows of columns (1) borate data at the front (1) nestic data plotted to scale (5 \times 1) (5) borate data plotted to scale (5 \times 1) (5) | | [3] [15] | | | |
| | | | | | | [Total: 25] | | | |
| | | | | | | | | | |