UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2008 question paper

0445 DESIGN AND TECHNOLOGY

0445/02   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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

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A1 (a) Accuracy and proportion of:
    B (1)
    L (1)
    E (1)
    S (1)
    Spacing (1)
    Height (1)   **[6]**

(b) Border complete 250 × 50   **[1]**

(c) Triangle (1)
    Equilateral (1)   **[2]**

A2 Pentagon – 5 sides (1)
Regular (1)   **[2]**

Hexagon – 6 sides (1)
Regular (1)   **[2]**

Octagon (1)
Regular (1)   **[2]**

A3 Tray size (2)
Height of front (1)
Slope on sides (2 × 1)
Height of back (1)
Taper on back (2 × 1)
Lugs evident (2 × 1)   **[10]**

[Total: 25]

B4 (a) *general*
    Two sides (2)
    Rear panel evident (1)
    Two wheels on each side (2 × 2)

    cab
    Overall shape correct on side panel (1)
    Cab correct size on side panel (1)

    roof
    Van roof 85 × 50 (1)
    Fold down for front 4 sections (4)
    Fold down length 77 +/-2mm (1)
    Rear panel correct size 50 × 60 (1)   **[16]**

(b) **(i)** Windscreen size correct (1)
On correct panel (1)   [2]

   (ii) Headlamps suitable size (1)
On correct panel (1)   [2]

 (iii) Front bumper correct size (1)
On front and side panels (2)   [3]

   (iv) Glue tabs (min 6) (1)
Suitable size of tabs (1)   [2]

[Total: 25]

B5 **(a)** **(i)** *front view*
Length of stand (1)
Height of stand (1)
Major axis correct size (1)
Minor axis correct size (1)
Construction of ellipse (Pr 0-2) (2)
Curve line quality (Pr 0-2) (2)
Tail fin correct shape & size (1)
Position of pectoral fin on centreline (1)
Mouth in correct position (1)
Eye in correct position (1)   [12]

   (ii) *plan view*
Width of stand (1)
Body of fish correct length (1)
Body of fish correct width (2mm) (1)
Pectoral fin 45 long (1)
Pectoral fin 18 wide from body (1)
Position of fish on stand (1)
Position of pectoral fins (Pr 0-2) (2)   [8]

(b) Matching symbol to projection (1)
Quality of symbol drawing (1)   [2]

(c) Suitable solution drawn (Pr 0-3)   [3]

[Total: 25]