

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
International General Certificate of Secondary Education

MARK SCHEME for the May/June 2009 question paper
for the guidance of teachers

0445 DESIGN AND TECHNOLOGY

0445/02

Paper 2 (Graphic Products), maximum raw mark 50

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Page 2	Mark Scheme: Teachers' version	Syllabus
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A1 HeadbandWidth 2×1 (2)

On left of ellipse (1)

Ellipse

Major axis 160 (1)

Minor axis 120 (1)

Construction (all points plotted) (3)

(evident on half) (2)

(evident) (1)

Correct orientation (1)

[6]

[Total: 9]**A2 Accuracy and proportion of:****A** (1)**M** (1)**E** (1)**S** (1)

Spacing (1)

Height (1)

[6]

[Total: 6]**A3 (a) Cross halving slots**

15/20 on bottom of F.E. (2)

[2]

(b) Overall proportion – height (1) width (1)

Stand sloping back (1)

Pocket proportion (1)

Front cut-out (1)

Inside edge of pocket evident (1)

Radius corners to pocket (1)

Slope to back prop behind part A (1)

[8]

[Total: 10]

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B4 (a) Bar Chart

Each year block and labelled (5×1)
 Each year correct height to scale (5×1)

(b) Drawing of Symbol

Head $\varnothing 40$ (1)
 2 feet $\varnothing 20$ (2×1)
 2 hands $\varnothing 20$ (2×1)
 4 widths correct and equal (2)
 2 shoulders radius 20 (2)
 O/H 70/70 (1)

[10]

(c) Enlargement

Two lines to focal point (2)
 Drawn rectangle (1)
 Square of 48/50 with curve top/bottom (2)

[5]

[Total: 25]**B5 (a) View from A**

Two sides correct O/Length 150 (2×1)
 30° included angle (1)
 50 plain end (1)
 60 window (1)

[5]

View from B

50 high (1)
 78 ± 2 wide (1)
 $2 \times$ Windows (1)
 On bottom half (1)
 Flap shown correctly (1)

[5]

(b) Development

Length of side 150 (1)
 Height of side 50 (1)
 2 rectangular sides (2)
 30° middle section (1)
 Fold line 25 down (2×1)
 Window cuts 60 apart (1)
 Window 50 from base end (1)
 Cut line parallel to base (2×1)

[11]

(c) Flaps will hold together

Pr 1–2 (2)
 Quality of sketch
 Pr 1–2 (2)

[4]

[Total: 25]