

**MARK SCHEME for the May/June 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** Accuracy and proportion of:  
D (1)  
S (1)  
O (1)  
N (1)  
Spacing (1)  
Height (1) [6]
- Border complete 250 x 50 (1) [1]
- Semicircle (1)  
Radius 25 and correct orientation (1) [2]
- A2** Hexagon – 6 sides (1)  
Regular – 30 sides (1)
- Diamond (1)  
50 x 60 diagonals at 90° (1)
- Triangle (1)  
50 equilateral (1) [6]
- A3 (a)** Distance support correct size (1)  
position 90° to panel (1) [2]
- (b)** Display card correct size (120) (1)  
drawing in central position (105) (1)  
parallel to panel (1) [3]
- (c)** Phone pocket correct size (1)  
central position (1) [2]
- (d)** Additional card inside dist support (1)  
Correct angle to brace (1) [2]
- (e)** Strut aligned with panel and top (1) [1]

**[Total: 25]**

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- B4 (a)** Overall width 120/124 (2)  
Overall length 350/360 (1)  
Back panel square (2)  
Octagon shape (1)  
Regular/equal sides 50 (2)
- Hex end same O/L length as width (1)  
Hex cut out (1)  
Cut-out same orientation as sketch (1)  
3 equal sides 60 x 120° (3)
- Glue tabs (min 2) (2)  
Suitable width of tabs (1)  
Position of tabs on hex end (1)  
Fold lines (2) [20]

- (b)** Modification to correct end (Pr 0–2) (2)  
Slot or similar (Pr 0–2) (2)  
No adhesive (1) [5]

**[Total: 25]**

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- B5 (a)** *Check box opens and closes*  
decision box (1)  
Y and N (1)  
loop (1)
- Pick up plastic moulded tray*  
activity box (1)  
content (1)
- Fill tray with correct items*  
activity box (1)  
content (1)
- Check all items are correct*  
decision box (1)  
Y and N (1)  
loop (1)
- Insert tray into box*  
activity box (1)  
content (1)
- Close box*  
start/stop box (1)  
content (1)
- All in correct order (2) [16]
- (b)** (draft) to allow the plastic to be removed (1) [1]
- (c) (i)** suitable pictogram showing:  
battery on charge Pr 0–2 (2)  
10 Hrs max time Pr 0–2 (2) [4]
- (ii)** suitable pictogram showing:  
Disposal Pr 0–2 (2)  
Not by burning Pr 0–2 (2) [4]
- [Total: 25]