## Cambridge International Examinations

Cambridge Ordinary Level

SPECIMEN MARK SCHEME

## MAXIMUM MARK: 80

| Question | Answer | Marks |
| :---: | :--- | ---: |
| A1(a) | Appropriate colour used (brown - yellow) [1] <br> Some grain added [1] <br> Grain added correctly to side, top and end (including annual rings) [1] | $\mathbf{3}$ |
| A1(b) | Arc correctly used to show the arm swinging [1] <br> At least three positions for the arm drawn [1] <br> Three positions plotted for L [1] or more than three positions [2] <br> Load is finally positioned on the ground [1] <br> Points joined together to form a smooth curve for L [1] | $\mathbf{6}$ |
| A1(c) | Vertical 30 to the right of A [1] <br> Horizontal 80 up from A [1] <br> Vertical 80 to the left of A [1] <br> Radius 80 circle to top corner [1] <br> Horizontal 30 long to bottom left [1] <br> R10 arc [1] <br> R50 arc [1] <br> Shape correctly lined in to overlay [1] | $\mathbf{8}$ |
| A1(d)(i) | First or Third [1] | $\mathbf{2}$ |
| A1(d)(ii) | Award one mark for each example, to a maximum of 2 marks. <br> Examples include: <br> Dimensions or measurements <br> The shapes of the pieces <br> The positions of holes <br> [1 $\times$ 2] | $\mathbf{1}$ |
| A1(e) | Three-dimensional bar chart [1] <br> Five equal width bars [1] <br> Years indicated next to bars [1] <br> Suitable vertical scale [1] <br> Sales plotted correctly [1] | $\mathbf{5}$ |
| A1(f) | At least 3 stages added (text) [1] <br> At least 3 stages in process boxes (rectangular) [1] <br> End box added in correct shaped box [1] <br> Fourth stage added as a decision box [1] <br> Arrows added to the decision box [1] | $\mathbf{5}$ |


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| B2(a) | Any rectangle drawn [1] <br> Rectangle correct to overlay (plus or minus 2 mm) [1] <br> Three equal divisions of the rectangle [1] <br> Three divisions of rectangle correct to overlay [1] <br> Any three squares drawn in the correct positions (bottom half) [1] <br> Any three circles drawn in the correct positions (top half) [1] <br> Circles and squares correct to overlay [1] <br> Stripe correct to overlay or candidate solution [1] <br> Semi-circle drawn in correct position (middle top - overlay or candidate <br> solution) [1] | $\mathbf{9}$ |
| B2(b)(i) | Lithography or digital printing [1] | $\mathbf{1}$ |


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| B2(b)(ii) | Concentrate on how [1] and success criteria [1]. For example: <br> Ask people what they think of it [1] and if they say nice things it is a successful <br> design [1] <br> Look at sales [1] and if they have gone up the design is a success [1] | $\mathbf{2}$ |
| B2(c) | Stage 1 <br> Strip of acrylic shown [1] <br> All folds shown with a dashed line [1] <br> Cuts for base shown with a solid line [1] <br> Stage 2 <br> Strip of acrylic shown [1] <br> 90 degree fold shown to form three bases [1] <br> Cuts for the base clearly visible [1] | $\mathbf{6}$ |
| B2(d) | 3D sketch of base [1] <br> Square base [1] <br> Two holes shown in base [1] <br> 3D sketch of triangle [1] <br> Triangle in appropriate position above base [1] <br> 3D sketch of the two pegs [1] <br> All parts line up correctly (in line along one axis) [1] | $\mathbf{7}$ |


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| B3(a) | Six connected surfaces shown [1] <br> Six surfaces make a box with a sloping top [1] <br> Five additional surfaces correct to overlay [5] <br> (mark each surface individually with a $\checkmark$ to avoid early errors resulting in <br> double penalty) <br> Three further glue tabs shown [1 × 2] <br> Glue tabs in the correct positions [1] <br> Three fold in flaps [1] drawn in appropriate positions [1] <br> Best fold in flap an appropriate shape and size [1] <br> Some fold lines drawn to a recognised convention/labelled [1] or all fold lines <br> drawn to a recognised convention/labelled [2] | $\mathbf{1 5}$ |
| B3(b) | Rule or straight edge [1] <br> Cutting mat [1] <br> Safety rule [1] <br> One method of adding colour from: [1] <br> Crayons <br> Paint <br> Coloured paper <br> Ink, etc. | $\mathbf{4}$ |
| B3(c) | Design will stand on a flat surface [1] <br> Design will hold the package of sweets [1] <br> Surface graphics show a range of sweets is available [1] <br> Notes or labels evident [1] <br> Quality of sketch satisfactory [1] or good [2] | $\mathbf{6}$ |


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| B4(a) | Inner border added to the Eagle sheet [1] <br> Border of the correct size [1] <br> The word Eagles added [1] <br> The word Eagles added in an appropriate style of lettering [1] <br> Outside edge of paper added to the Shark sheet [1] <br> Outside edge the correct size [1] <br> Shark added [1] <br> Shark of an appropriate style (matches given designs) [1] | $\mathbf{8}$ |
| B4(b) | Original produced (computer printout, drawn, cut and paste, etc.) [1] <br> Method (photocopying, silk screen printing, print from computer, etc.) [1] <br> Clear understanding that it is a single colour print [1] | $\mathbf{3}$ |
| B4(c) | Sketches and notes show an understanding that: <br> The shapes/name could be peeled off a backing sheet [1] <br> The shapes/name could be stuck to a shirt [1] | $\mathbf{4}$ |
| Advantages: <br> No pins (safety) or damage to the shirt [1] <br> No additional materials required (Velcro) [1] | $\mathbf{5}$ |  |
| B4(d)(i) | Circle divided into three sectors [1] <br> Two sectors the correct size (120, 160 or 80 degrees) [1 $\times 2$ 2] <br> Different colours used to identify each of the sectors [1] <br> Sectors correctly labelled [1] | $\mathbf{5}$ |
| B4(d)(ii) | Clear understanding of the term sector [1] <br> Isometric drawing [1] <br> Sector drawn [1] <br> Construction method clearly shown [1] <br> Sector matches one part of candidate solution to B4 (d) (i) [1] |  |

