

Commentary

Candidate 1

Task 1		Commentary	Marks awarded	Max marks
1	a	<p>1 mark awarded for Earpiece as some dimensions are missing, but it can be seen from assembly that the part has been modelled correctly.</p> <p>0 marks awarded for Main body as it is incorrect.</p> <p>1 mark awarded for the Wireless connector as there is a rounding error for height – see additional guidance in marking instructions.</p> <p>1 mark awarded as-the correct section of end elevation and orientation across all three components is used.</p> <p>0 marks awarded as there was not enough dimensioning to allow for manufacture.</p>	3	5
	b	<p>1 mark awarded for-accurate assembly with no overlaps and no gaps.</p> <p>1 mark awarded for use of the relevant section, cutting through the vertical centreline.</p> <p>1 mark awarded as all views related and were orientated correctly.</p> <p>The follow on rule applies for incorrect main body in 1a.</p>	3	3
	c	<p>1 mark awarded for correct orientation (isometric and orientation from data sheet 1a).</p> <p>1 mark awarded for correct spacing and alignment with no overlap of components.</p>	2	2
	d	<p>2 marks awarded as there is sufficient range of evidence with some inconsistencies, namely overlapping cutting planes with views, broken extension lines, missing centre lines.</p>	2	3

Question		Commentary	Mark awarded	Mark awarded
2	a	<p>0 marks awarded for suitable materials used. There is no obvious use of both plastic and metal in the render. It appears to be all one material.</p> <p>1 mark awarded for appropriateness and quality of view.</p>	1	2
	b	<p>0 marks awarded as there is no extended text on either thumbnail. The text on the thumbnails are to identify what the images are.</p> <p>1 mark awarded for clarity of the layouts/thumbnails.</p> <p>0 marks awarded as the- Candidate has not correctly identified unity in layout 1.</p> <p>0 marks awarded as- The candidate has not correctly identified unity in layout 2.</p>	1	4
	c	<p>1 mark awarded for the correct size/proportion (scaled correctly) of layout - Ratio – 2.48.</p> <p>2 marks awarded for good quality visual impact.</p> <p>2 marks awarded for the use of 2 Design elements/principles, other than unity, correctly labelled and for identifying the depth and use of colour. The candidate also provided suitable justification for each of these design elements/principles.</p> <p>0 marks awarded as there was- no description of the effect created.</p>	5	7

Question		Commentary	Mark awarded	Max marks
3	a	<p>0 marks awarded as the top is incorrect.</p> <p>0 marks awarded as the base is incorrect.</p> <p>0 marks awarded as the insert is incorrect.</p> <p>0 marks awarded for proportion as the depth is out of proportion with the length.</p> <p>1 mark awarded for projection.</p>	1	5
	b	<p>0 marks awarded for elevation As the lines are in the wrong positions.</p> <p>1 mark awarded for end elevation as it correctly projected from elevation (Follow On).</p> <p>1 mark awarded for the plan as it correctly projected from elevation (Follow On).</p> <p>0 marks awarded for proportion as the depths and heights are incorrect.</p>	2	4
	c	<p>1 mark awarded for the sketch. There were missing cut-outs on base so only a maximum of 1 mark can be achieved.</p> <p>3 marks awarded for the render.</p>	4	5

Total marks – 24/40

Candidate 2

Task 1		Commentary	Mark awarded	Max marks
1	a	<p>3 marks awarded as all parts were modelled correctly.</p> <p>0 marks awarded for the correct section of end elevation and orientation across all three components as the wrong orientation was used.</p> <p>1 mark awarded as only some dimensions are missing, but there are enough for 1 mark to be achieved.</p>	4	5
	b	<p>1 mark (0 tolerance) awarded as the assembly appears to be accurate. A gap does appear however, it is unclear as to why this is.</p> <p>1 mark awarded as the section is correct as it cuts through all three components.</p> <p>0 marks awarded as the orientation of views is incorrect.</p>	2	3
	c	<p>1 mark is awarded for correct orientation (isometric and orientation from data sheet 1a).</p> <p>1 mark awarded for correct spacing and alignment. There is no overlap of components.</p>	2	2
	d	<p>2 marks awarded for provision of a sufficient range of evidence with some inconsistencies.</p> <p>Centre lines are all missing and cutting planes are of the wrong convention. Component titles are missing from the views.</p> <p>The evidence is still more right than wrong as the dimensions all correct, and there is evidence of hatching, title block, third angle projection symbol and view labels.</p>	2	3

Question		Commentary	Mark awarded	Max marks
2	a	<p>1 mark is awarded for the use of suitable materials. There is obvious use of plastics and metal in the render and appropriate lighting/highlights/shadows.</p> <p>1 mark is awarded for the appropriateness and quality of the view.</p> <p>Two different and appropriate materials have been used. Lighting, shadows and views are all appropriate.</p>	2	2
	b	<p>1 mark is awarded as both thumbnails contain extended text and images.</p> <p>1 mark is awarded as there is no need to state what the image will show. The positions are shown and the thumbnails are relatively clear.</p> <p>1 mark is awarded for clear identification of unity in layout 1.</p> <p>1 mark is awarded for clear identification of unity in layout 2.</p> <p>The candidate refers to unity of colour between text and image for both thumbnails.</p>	4	4
	c	<p>1 mark is awarded for the correct size (ratio 2.46).</p> <p>2 marks (tolerance 1) are awarded for good quality visual impact in a minimalist approach. The image has been edited to be red and create unity. The earphones have been orientated to allow waves to flow out of them. There is appropriate use of typography and hierarchy of size. The gradient background appears white behind the earphones to create contrast and reverse text has been used on part of the heading. 2 Design elements/principles, other than unity have been correctly labelled.</p> <p>1 mark is awarded as dominance is identified, but no description is given as to the effect created.</p> <p>The candidate has not provided suitable justification for each of these design elements/principles.</p> <p>Unity cannot be accepted for this question and no other design principles have been identified or justified.</p>	4	7

Question		Commentary	Mark awarded	Max marks
3	a	<p>0 marks awarded for the packaging top as hidden detail is missing on the plan.</p> <p>1 mark is awarded for the packaging Base as the internal depth dimension and radii of internal curves are missing however, these are found on other components. .</p> <p>0 marks awarded for the plastic insert as this is incorrect.</p> <p>0 marks awarded for proportion as there is poor application across some elements/views.</p> <p>1 mark is awarded for projection and the construction is correct even although construction lines appear to be rubbed out.</p>	2	5
	b	<p>1 mark is awarded as the elevation is correct. Follow On for proportion from 3a.</p> <p>0 marks awarded for the end elevation as it has a missing handle on the back.</p> <p>1 mark awarded as the plan is correct.</p> <p>0 marks awarded for proportions as the depth of the Plan and End Elevation was inaccurate.</p>	2	4
	c	<p>1 mark is awarded as the sketching is of fair quality. Only 1 mark is possible to be awarded given the candidate incorrectly included the lid.</p> <p>0 marks awarded as the rendering shows highlights and shadow and is of poor quality.</p>	1	5

Total marks – 25/40

Candidate 3

Task 1		Commentary	Mark awarded	Max marks
1	a	<p>0 marks awarded as the diameter of the ear piece was wrong (diameter 5).</p> <p>0 marks awarded as the diameter of the main body was wrong (diameter 8) and there was no hidden detail.</p> <p>1 mark was awarded for the wireless connector.</p> <p>1 mark was awarded for use of the correct section of end elevation and orientation across all three components.</p> <p>0 marks awarded as some key dimensions were missing namely the depth of the wireless connector, height of internal cylinder of ear piece, wall thickness of ear piece and chamfer detail of the main body,</p>	2	5
	b	<p>0 marks awarded as although the follow on rule applies from the inaccurate ear piece, assembly between the main body and wireless connector are overlapping.</p> <p>1 mark was awarded for the section.</p> <p>1 mark was awarded for the related views.</p>	2	3
	c	<p>1 mark was awarded for use of the correct orientation (isometric and orientation from data sheet 1a).</p> <p>1 mark was awarded for correct spacing and alignment with no overlap of components.</p>	2	2
	d	<p>2 marks awarded as there was sufficient range of evidence with some inconsistencies. Some centre lines and component titles were missing.</p>	2	3

Question		Commentary	Mark awarded	Max marks
2	a	<p>1 mark was awarded for the use of suitable materials. There was obvious use of plastics and metal in the render and appropriate lighting/highlights/shadows.</p> <p>1 mark was awarded for appropriateness and quality of the view.</p>	2	2
	b	<p>1 mark awarded for the correct use of text and image on both.</p> <p>1 mark was awarded for clarity. 1 mark was awarded as although the description of unity in thumbnail 1 was a bit vague, the candidate makes reference to unity of colour between the background and shapes. The candidate struggled to communicate their use of unity in their comment (thumbnail 1), however they clearly know what unity is and how it is applied.</p> <p>1 mark awarded for thumbnail 2 as there was clear identification of unity in layout 2.</p>	4	4
	c	<p>1 mark was awarded for size within ratio range 2.45.</p> <p>1 mark was awarded as the quality was fair.</p> <p>0 marks awarded as dominance was incorrectly identified. Had the candidate referred to the drop shadow creating emphasis (beyond National 5 knowledge), this would have been acceptable.</p> <p>0 marks awarded as no other element or principle was identified or justified. "To make it more dominant" refers to an element standing out more.</p>	2	7

Question		Commentary	Mark awarded	Max marks
3	a	<p>0 marks awarded as the insert was missing some hidden detail.</p> <p>1 mark awarded as the base is correct.</p> <p>0 marks awarded as the top is missing some hidden detail on elevation and end elevation.</p> <p>0 marks awarded for inconsistent proportion across all sketches.</p> <p>0 marks awarded as the projection was not used on the end elevation insert.</p>	1	5
	b	<p>1 mark awarded as the elevation follow on applied from the lid proportion.</p> <p>0 marks awarded as the end elevation was not projected properly.</p> <p>1 mark awarded for the plan.</p> <p>0 marks awarded as the proportion (depth) was inaccurate.</p>	2	4
	c	<p>1 mark awarded for the sketch for use of correct proportions and detail.</p> <p>1 mark awarded for the render.</p>	2	5

Total marks – 21/40