Commentary on candidate evidence

Assessors awarded the candidate evidence the following marks for each question of the question paper.

Candidate 1

The candidate was awarded a total of **73 out of 80 marks**.

Question 1(a)(i)

The candidate was awarded **1 mark** because they correctly stated ‘pie chart’.

Question 1(a)(ii)

The candidate was awarded **1 mark** because they explained that a pie chart ‘shows percentages’. They also explained that all values in a pie chart add up to 100%, which would also attract a mark.

Question 1(b)

The candidate was awarded **0 marks** because they were not specific in describing how the artists graphically communicated the most popular types of music. For example, ‘changing the size of segments’ does not relate to the difference between a large or small segment. Had the candidate described that the increased segment sizes reflected the most popular music types, then this would have been awarded a mark.

Question 1(c)(i)

The candidate was awarded **1 mark** because they correctly stated ‘line graph’.

Question 1(c)(ii)

The candidate was awarded **1 mark** because they explained that a line graph shows a trend over a period of time.

Question 1(d)(i)

The candidate was awarded **2 marks** because they provided a range of correct responses describing how specific elements in the layout create depth. Any response must make clear reference to one or more elements in a layout.

Question 1(d)(ii)

The candidate was awarded **1 mark** because they correctly described how the black line links elements together, referencing the various elements that are unified in the layout. All other responses do not attract marks as they do not make specific reference to elements within the layout.

Question 1(d)(iii)

The candidate was awarded **2 marks** because they described the contrast between the white ‘1002’ and black line and described black ‘1002’ text and ‘red shape’ (contrast of colour).

The other statements would not attract marks as they do not make specific reference to the parts of the layout.

Question 1(e)

The candidate was awarded **1 mark** because they correctly described the type of alignment (centre) between a number of elements in the layout. Marks can only be awarded for alignment when the candidate has stated the type of alignment and clearly stated the two or more elements that are aligned.

Question 2(a)(i)

The candidate was awarded **1 mark** because they clearly explained about showing a realistic representation.

Question 2(a)(ii)

The candidate was awarded **2 marks** because they provided three correct responses for input devices, two of which would have been enough.

Question 2(b)

The candidate was awarded **1 mark** because they correctly stated the scale of a site plan.

Question 2(c)

The candidate was awarded **1 mark** because they explained that contours show elevation changes on a site. The second comment ‘to show the elevation’ would not attract any marks.

Question 2(d)

The candidate was awarded **1 mark** for correctly stating ‘North west’.

Question 2(e)

The candidate was awarded **1 mark** for correctly stating ‘East’.

Question 2(f)

The candidate was awarded **1 mark** because they made reference to the ability to work from anywhere as an advantage of remote working. None of the other comments attracted marks.

Question 3(a)

The candidate was awarded **5 marks** for the following:

- 45x45mm square extruded by 80 **(1 mark)**
- 15x10mm sketch on side face AND full subtraction; incorrect term used – ‘remove material’ instead of ‘subtraction’ **(0 marks)**
- 25 dia. circle extruded by 10mm **(1 mark)**
- fillet of R10 applied to edges – the candidate has indicated the corners where the fillet is applied on the sketch **(1 mark)**
- shell 2mm and remove top face (from description) **(1 mark)**
- shell applied last **(1 mark)**

Question 3(b)(i)

The candidate was awarded **1 mark** because they correctly stated ‘revolve’.

Question 3(b)(ii)

The candidate was awarded **1 mark** because they correctly stated ‘fillet’.

Question 3(b)(iii)

The candidate was awarded **1 mark** because they correctly stated ‘extrude subtract’.

Question 3(c)(i)

The candidate was awarded **1 mark** because they identified the correct sectional view.

Question 3(c)(ii)

The candidate was awarded **1 mark** because they identified the correct sectional view.

Question 3(c)(iii)

The candidate was awarded **1 mark** because they identified the correct sectional view.

Question 3(d)

The candidate was awarded **1 mark** as the centre axis is correct however, was not awarded a further mark for the mate constraint as it is unclear which part the candidate is referring to as ‘main part of the lid’. In this example, the candidate would have benefited from annotating the graphic to support their answer.

Question 4(a)

The candidate was awarded **2 marks** for describing that preliminary sketches can be ‘shown to the client’ **(1 mark)** and they are ‘quickly created’ **(1 mark)**. None of the other responses would attract marks.

Question 4(b)

The candidate was awarded **2 marks** for ‘easy to edit’ **(1 mark)** and ‘materials can be tested’ **(1 mark)**. The other responses would not attract any marks.

Question 4(c)

The candidate has provided three correct responses, however, was awarded the maximum **2 marks** available for this question; ‘there is less material used’ – this falls under less physical materials used **(1 mark)**, ‘it can be shared globally’ – falls under reach wider audience **(1 mark)**, and ‘it can be viewed anywhere’ – falls under easy to access anywhere.

Question 4(d)

The candidate was awarded **1 mark** for identifying the correct true shape.

Question 4(e)

The candidate was awarded **1 mark** for identifying the symbol for a socket.

Question 5(a)

The candidate was awarded **2 marks** for identifying the two correct layouts.

Question 5(b)(i)

The candidate was awarded **1 mark** for stating ‘drop shadow’.

Question 5(b)(ii)

The candidate was awarded **1 mark** for stating ‘transparency’.

Question 5(b)(iii)

The candidate was awarded **1 mark** for stating ‘reverse’.

Question 5(b)(iv)

The candidate was awarded **1 mark** for stating ‘flow text along a path’.

Question 5(c)

The candidate was awarded **2 marks** for this question; ‘creates contrast’ **(1 mark)** and ‘makes the title stand out’ **(1 mark)**. All other responses would not attract marks.

Question 5(d)

The candidate was awarded **3 marks** for correctly completing the table with the colour types.

Question 5(e)

The candidate was awarded the maximum of **2 marks** for identifying the colour coding system **(1 mark)** and the icon system **(1 mark)**. The statement ‘there is a finished assembly for reference’ would also attract a mark.

Question 6(a)

The candidate was awarded **2 marks** for correctly stating ‘lighting’ and ‘material’ as CAD illustration techniques.

Question 6(b)

The candidate was awarded **1 mark** for explaining that it adds realism.

Question 6(c)

The candidate was awarded the maximum of **5 marks** as detailed below:

Revolve method from the marking instruction:

- initial sketch profile is correct **(1 mark)**
- centre axis identified through the centre line sketch **(1 mark)**
- revolve 360 **(1 mark)**
- slot profile is correct **(1 mark)**
- subtracted by more than 15mm **(1 mark)**

Although the candidate has indicated an incorrect offset for the work-plane, this is knowledge not assessed at National 5 level. Therefore, this should be ignored as part of the response.

Question 6(d)

The candidate was awarded the maximum of **6 marks** for this question by correctly identifying six British Standards errors in the drawing. The only statement that would not have attracted a mark is ‘a hidden line is missing’.

Question 6(e)(i)

The candidate was awarded **1 mark** for describing that the symbol indicates 3rd angle projection is used in the drawing.

Question 6(e)(ii)

The candidate was awarded **3 marks** for correctly stating the three other pieces of information that should be included in the title block.

Question 6(f)

The candidate was awarded the maximum of **4 marks** for correctly calculating the missing dimensions from the orthographic drawing.

Candidate 2

The candidate was awarded a total of **55 out of 80 marks**.

Question 1(a)(i)

The candidate was awarded **1 mark** because they correctly stated ‘Pie chart’.

Question 1(a)(ii)

The candidate was awarded **1 mark** because they explained that a pie chart gives information in percentages.

Question 1(b)

The candidate was awarded **3 marks** because they described that the largest segment has the higher percentage, drop shadows are used to create layering to

make the larger segments appear further forward, and the change of colour tone from dark (highest percentage) to light (lowest).

Question 1(c)(i)

The candidate was awarded **1 mark** because they correctly stated ‘line graph’.

Question 1(c)(ii)

The candidate was awarded **1 mark** because they explained that a line graph shows a change over a period of time.

Question 1(d)(i)

The candidate was awarded **2 marks** for this question. In their response to layering of the 1002 text over the shapes, no specific shapes were mentioned however, it is clear what the candidate is referring to **(1 mark)**. The second mark comes from the statement regarding the drop shadow being applied to the 1002 text **(1 mark)**.

Question 1(d)(ii)

The candidate was awarded **1 mark** because they correctly described how the black line links elements together, referencing the various elements that are unified in the layout. None of the other responses attract marks as they do not make specific reference to elements within the layout.

Question 1(d)(iii)

The candidate was awarded **0 marks** as both of their statements contained inaccuracies; ‘teal and pink are contrasting colours’ – this is a generic statement that does not refer to two or more specific elements on the layout. The music genre text is not different to all the other text in the layout – PULSE has the same typeface.

Question 1(e)

The candidate was awarded **0 marks** because they have described text justification, a Desktop Publishing technique, rather than alignment.

Question 2(a)(i)

The candidate was awarded **1 mark** because they clearly explained that these types of graphics are used to promote a product.

Question 2(a)(ii)

The candidate was awarded **0 marks** because they provided two incorrect input devices to create a digital file from a hard copy.

Question 2(b)

The candidate was awarded **0 marks** for stating the incorrect scale of a site plan.

Question 2(c)

The candidate was awarded **1 mark** because they explained that contours show ‘hills’ within a landscape. Although not strictly within the marking instruction, the candidate does infer that contours communicate sloping features.

Question 2(d)

The candidate was awarded **1 mark** for correctly stating ‘North-west’.

Question 2(e)

The candidate was awarded **1 mark** for correctly stating ‘East’.

Question 2(f)

The candidate was awarded **1 mark** because they made reference to the ability to share files remotely (share documents electronically from the marking instruction). The second statement of an office not being needed does not make reference to cost savings, so cannot be awarded a mark.

Question 3(a)

The candidate was awarded **5 marks** for the following:

- 45x45mm square extruded by 80 **(1 mark)**
- fillet of R10 applied to edges **(1 mark)**

- 15x45mm sketch on bottom face AND subtraction by 10mm **(0 marks)**
- the candidate has sketched a square of 15x15 on the bottom face which is incorrect
- 25 dia. circle extruded by 10mm **(1 mark)**
- shell 2mm and remove top face **(1 mark)**
- shell applied last **(1 mark)**

Question 3(b)(i)

The candidate was awarded **1 mark** because they correctly stated ‘Revolve’.

Question 3(b)(ii)

The candidate was awarded **1 mark** because they correctly stated ‘Fillet’.

Question 3(b)(iii)

The candidate was awarded **1 mark** because they correctly stated ‘Subtract’.

Question 3(c)(i)

The candidate was awarded **1 mark** because they identified the correct sectional view.

Question 3(c)(ii)

The candidate was awarded **1 mark** because they identified the correct sectional view.

Question 3(c)(iii)

The candidate was awarded **0 marks** because they identified the incorrect sectional view.

Question 3(d)

The candidate was awarded **0 marks** for this question because ‘align’ and ‘flush’ are incorrect CAD terms. To be awarded marks in this example with the annotations, candidates must use the correct terms for assembly; centre axis and mate.

Question 4(a)

The candidate was awarded **0 marks** for this question as neither of their answers relate to the reasons for creating thumbnail sketches.

Question 4(b)

The candidate was awarded **0 marks** for this question. Speed is not a factor as digital sketching may be slower depending on the creator. The second statement relating to access from anywhere is irrelevant.

Question 4(c)

The candidate was awarded **1 mark** for 'It requires less materials' **(1 mark)**. The question is not asking about *producing* the portfolio, hence no marks can be awarded for 'It can be done remotely'.

Question 4(d)

The candidate was awarded **1 mark** for identifying the correct true shape.

Question 4(e)

The candidate was awarded **1 mark** for identifying the symbol for a socket.

Question 5(a)

The candidate was awarded **2 marks** for identifying the two correct layouts.

Question 5(b)(i)

The candidate was awarded **1 mark** for stating 'Drop shadow'.

Question 5(b)(ii)

The candidate was awarded **1 mark** for stating 'Trancparency'.

Question 5(b)(iii)

The candidate was awarded **1 mark** for stating 'Reverse text'.

Question 5(b)(iv)

The candidate was awarded **1 mark** for stating ‘flow text along a path’.

Question 5(c)

The candidate was awarded **1 mark** for this question. The mark comes from the first point which relates to contrast of colour – although dominance has been mentioned, which on its own would not attract marks, the candidate goes on to describe contrast against the purple background. The second point, however, refers to dominance due to the size of the text, which is not what the question is asking.

Question 5(d)

The candidate was awarded **3 marks** for correctly completing the table with the colour types.

Question 5(e)

The candidate was awarded the maximum of **2 marks** for identifying the colour coding system **(1 mark)** and the shape coding system **(1 mark)**.

Question 6(a)

The candidate was awarded **1 mark** for correctly stating ‘light source’ as a CAD illustration technique.

Question 6(b)

The candidate was awarded **0 marks** because their explanation of making objects ‘appear less flat’ is incorrect. A pictorial line drawing, for example, also does not look flat.

Question 6(c)

The candidate was awarded **1 mark** for this question. The only mark achieved is for the correct identification of the centre axis. This is a good example of a candidate trying to describe how to create the 2D CAD profile, which is not what these types of questions are assessing. Candidates are only required to describe the 3D CAD

processes in creating components. Had the candidate correctly described the 2D CAD profile, they would have achieved an additional mark however, their description is inaccurate.

Question 6(d)

The candidate was awarded the maximum of **6 marks** for this question by correctly identifying six British Standards errors in the drawing:

- should be marked R15 – relating to the dia. 30 on the arc **(1 mark)**
- incorrect hatching line types identified **(1 mark)**
- diameter, not radius, is shown on the plan for all three dimensions, with only two being correct **(2 marks)**
- plan is incorrectly labelled **(1 mark)**
- unit shown next to size **(1 mark)**

Question 6(e)(i)

The candidate was awarded **1 mark** for describing that the symbol indicates 3rd angle projection is used in the drawing.

Question 6(e)(ii)

The candidate was awarded **3 marks** for correctly stating three other pieces of information that should be included in the title block.

Question 6(f)

The candidate was awarded the maximum of **3 marks.** The answer for dimension D is incorrect.

Candidate 3

The candidate was awarded a total of **50 out of 80 marks**.

Question 1(a)(i)

The candidate was awarded **1 mark** because they correctly stated ‘Pie’.

Question 1(a)(ii)

The candidate was awarded **0 marks** because they made no reference to percentages or adding up to a whole.

Question 1(b)

The candidate was awarded **2 marks** because they described the segments increasing in size as percentages increase, and the tone of colour becoming darker as the segment size increases. There were no marks awarded for the first statement as it did not answer the question.

Question 1(c)(i)

The candidate was awarded **1 mark** because they correctly stated ‘line’.

Question 1(c)(ii)

The candidate was awarded **0 marks** because they did not refer to trends or changes over time in relation to a line graph.

Question 1(d)(i)

The candidate was awarded **1 mark** for this question. They identified the ‘1002’ text as having a shadow **(1 mark)**. Although the term ‘drop shadow’ wasn’t used by the candidate, this question is assessing design elements and principles, not DTP techniques, so a mark can be awarded.

Question 1(d)(ii)

The candidate was awarded **1 mark** because they correctly described the repeated use of red for the lines and the ‘blobs’ (shapes).

Question 1(d)(iii)

The candidate was awarded **0 marks** as their statements describes depth, not contrast.

Question 1(e)

The candidate was awarded **0 marks** because they have not described the type of alignment; they only described the shapes on the left side of the app lining up. An acceptable response would have been ‘the blobs on the left side of the screen are aligned vertically’.

Question 2(a)(i)

The candidate was awarded **1 mark** because they clearly explained realism as a purpose for a promotional graphic.

Question 2(a)(ii)

The candidate was awarded **2 marks** because they provided two correct input devices to create a digital file from a hard copy.

Question 2(b)

The candidate was awarded **1 mark** for stating the correct scale of a site plan.

Question 2(c)

The candidate was awarded **0 marks** because they incorrectly explained that contours show where wiring is.

Question 2(d)

The candidate was awarded **1 mark** for correctly stating ‘North-West’.

Question 2(e)

The candidate was awarded **1 mark** for correctly stating ‘East’.

Question 2(f)

The candidate was awarded **2 marks** because they described ‘less Money spent by commuting’ – a reference to the reduction of travel costs **(1 mark)** and ‘less emisions’ – a reference to less impact on the environment **(1 mark)**.

Question 3(a)

The candidate was awarded **4 marks** for the following:

- 45x80mm rectangle extruded by 45 – this is a different method of creating the same shape **(1 mark)**
- 25 dia. circle extruded by 10mm – the extrusion takes place a few steps later in the candidate response **(1 mark)**
- 15x10mm sketch on side face AND full subtraction – the subtraction given is 10mm **(0 marks)**
- fillet of R10 applied to edges – not attempted **(0 marks)**
- shell 2mm and remove top face – no reference to removing the top face in the description; the candidate has shown this in the sketch to support their answer. **(1 mark)**
- shell applied last **(1 mark)**

Question 3(b)(i)

The candidate was awarded **1 mark** because they correctly stated ‘Revolve’.

Question 3(b)(ii)

The candidate was awarded **1 mark** because they correctly stated ‘fillet’.

Question 3(b)(iii)

The candidate was awarded **1 mark** because they correctly stated ‘Subtract Extrude.

Question 3(c)(i)

The candidate was awarded **0 marks** because they identified the incorrect sectional view.

Question 3(c)(ii)

The candidate was awarded **0 marks** because they identified the incorrect sectional view.

Question 3(c)(iii)

The candidate was awarded **0 marks** because they identified the incorrect sectional view.

Question 3(d)

The candidate was awarded **0 marks** for this question as they incorrectly identified the centre axis and wrong surfaces. They also failed to use the mate constraint with regards to the surfaces.

Question 4(a)

The candidate was awarded **1 mark** for this question. ‘Quickly puts ideas on the page’ relates to the quick speed of production and is enough to achieve a mark. The statement ‘gives designers an idea of what their product would look like’ provides no reference to sharing the ideas and was not awarded a mark.

Question 4(b)

The candidate was awarded **1 mark** for this question. Speed is not a factor as digital sketching may be slower depending on the creator. The second statement relating to less physical materials being used was awarded a mark.

Question 4(c)

The candidate was awarded **1 mark** for ‘Easy access for Clients to look at’ because it relates to the ease of access anywhere.

Question 4(d)

The candidate was awarded **1 mark** for identifying the correct true shape.

Question 4(e)

The candidate was awarded **1 mark** for identifying the symbol for a socket.

Question 5(a)

The candidate was awarded **2 marks** for identifying the two correct layouts.

Question 5(b)(i)

The candidate was awarded **1 mark** for stating ‘Drop shadow’.

Question 5(b)(ii)

The candidate was awarded **1 mark** for stating ‘transparency’.

Question 5(b)(iii)

The candidate was awarded **1 mark** for stating ‘Reverse text’.

Question 5(b)(iv)

The candidate was awarded **0 marks** for only stating ‘flow text’. For a mark to be awarded, candidates must state ‘flow text along a path’, or ‘text along a path’.

Question 5(c)

The candidate was awarded **2 marks** for this question as they make reference to ‘stand out’ **(1 mark)** and to positive emotions (‘Happy’) **(1 mark)**.

Question 5(d)

The candidate was awarded **3 marks** for correctly completing the table with the colour types.

Question 5(e)

The candidate was awarded the maximum of **2 marks** for identifying the colour coding system **(1 mark)** and the shape coding system **(1 mark)**.

Question 6(a)

The candidate was awarded **2 marks** for correctly stating ‘Materials’ and ‘lighting’ as CAD illustration techniques. Either statement, on their own, would have been enough for 1 mark here.

Question 6(b)

The candidate was awarded **1 mark** because they explained the effect of adding realism.

Question 6(c)

The candidate was awarded **2 marks** for this question:

- Correct initial profile **(1 mark)** – the candidate has sketched the finished extrusion but has shown a dia. 105 dimension to indicate the initial sketch is correct.
- Dia. 125 circle extruded by 10. **(1 mark)**
- Incorrect profile for slot as 30mm dimensioned and the position is not identified. **(0 marks)**
- Subtraction is not completed. **(0 marks)**

Question 6(d)

The candidate was awarded **3 marks** for this question for correctly identifying three British Standards errors in the drawing:

- 'Adding units to dimensions' - reference to the 60mm **(1 mark)**
- 'Dimensions overlapping' - reference to 50 and 60 overlapping **(1 mark)**
- 'labels are messed up' - annotated that the elevation is incorrectly labelled as 'End Elevation' **(1 mark)**

Question 6(e)(i)

The candidate was awarded **0 marks** as they only stated the name for the 3rd angle projection symbol and did not describe its purpose.

Question 6(e)(ii)

The candidate was awarded **2 marks** for correctly stating three other pieces of information that should be included in the title block.

Question 6(f)

The candidate was awarded the maximum of **2 marks** for correctly calculating dimensions A and B.

Candidate 4

The candidate was awarded a total of **73 out of 80 marks**.

Question 1(a)(i)

The candidate was awarded **1 mark** because they correctly stated ‘pie chart’.

Question 1(a)(ii)

The candidate was awarded **1 mark** because they made reference to percentages being shown.

Question 1(b)

The candidate was awarded **3 marks** because they described the segments increasing in size as the percentages increase, the tone of colour becoming darker as the segment size increases, and the text size becoming larger for more popular genres.

Question 1(c)(i)

The candidate was awarded **1 mark** because they correctly stated ‘line graph’.

Question 1(c)(ii)

The candidate was awarded **0 marks** because they did not refer to trends or changes over time in relation to a line graph.

Question 1(d)(i)

The candidate was awarded **2 marks** for this question. They have annotated the graphic to support their answer which is an example of good practice. Depth ‘can be

seen in objects overlapping' on its own would not achieve a mark however, the clear annotation identifying the objects that are overlapping supports their written answer **(1 mark)**. The second mark is awarded at 'dropshadow of the "1002" text' **(1 mark)**.

Question 1(d)(ii)

The candidate was awarded **0 marks** for this question. 'Repetitive use of sans-serif fonts' is incorrect as there is a range of sans serif fonts used in the layout which do not create unity. Had the candidate described the repetition of the same font (for example, with 'Pulse' and the various genres being the same), this would have achieved a mark. The statement 'repetitive use of red and green colours throughout the design' does not make reference to specific elements in the layout and therefore cannot achieve a mark.

Question 1(d)(iii)

The candidate was awarded **2 marks** for this question; 'contrasting colours (red and green)', is again identified in the annotation on the layout **(1 mark)** and reference to contrast between soft shapes and sharp lines **(1 mark)**.

Question 1(e)

The candidate was awarded **1 mark** because they identified two elements that are aligned and how they are aligned ('vertically').

Question 2(a)(i)

The candidate was awarded **1 mark** because they clearly explained realism as a purpose for a promotional graphic.

Question 2(a)(ii)

The candidate was awarded **2 marks** because they provided two correct input devices to create a digital file from a hard copy.

Question 2(b)

The candidate was awarded **1 mark** for stating the correct scale of a site plan.

Question 2(c)

The candidate was awarded **1 mark** because they explained how contours show different heights of ground in a landscape.

Question 2(d)

The candidate was awarded **1 mark** for correctly stating ‘north-west’.

Question 2(e)

The candidate was awarded **1 mark** for correctly stating ‘east’.

Question 2(f)

The candidate was awarded **2 marks** because they described saving time on travel **(1 mark)** and explained that the designer can work anywhere in the world, relating to the ability to choose where to work **(1 mark)**.

Question 3(a)

The candidate was awarded **5 marks** for the following:

- 45x45mm rectangle extruded by 80 **(1 mark)**
- 15x45mm sketch on side face and 10mm subtraction **(1 mark)** – the sketch shows the rectangle overlapping the outer faces, so this is more than 45mm
- 25 dia. circle extruded by 10mm **(1 mark)**
- fillet of R10 applied to edges **(1 mark)**
- shell 4mm **(0 marks)** and remove top face **(0 marks)**
- shell applied last **(1 mark)**

Question 3(b)(i)

The candidate was awarded **1 mark** because they correctly stated ‘revolve’.

Question 3(b)(ii)

The candidate was awarded **1 mark** because they correctly stated ‘fillet’.

Question 3(b)(iii)

The candidate was awarded **1 mark** because they correctly stated ‘extrude subtract’.

Question 3(c)(i)

The candidate was awarded **1 mark** because they identified the correct sectional view.

Question 3(c)(ii)

The candidate was awarded **0 marks** because they identified the incorrect sectional view.

Question 3(c)(iii)

The candidate was awarded **1 mark** because they identified the correct sectional view.

Question 3(d)

The candidate was awarded **2 marks** for this question. ‘Centre axis’ and ‘mate’ are the correct terms, and they have been correctly labelled on the graphic.

Question 4(a)

The candidate was awarded **2 marks** for this question. The first statement falls under ‘easy to produce’ **(1 mark)** and the second statement falls under ‘showing a client’ **(1 mark)**.

Question 4(b)

The candidate was awarded **1 mark** for this question for the first statement only: ‘Can be easily shared through email’.

Question 4(c)

The candidate was awarded **2 marks** for this question. Both explanations are valid – ‘Can be accessed from anywhere’ **(1 mark)** and ‘Interactive links…can be added’ **(1 mark)**.

Question 4(d)

The candidate was awarded **1 mark** for identifying the correct true shape.

Question 4(e)

The candidate was awarded **1 mark** for identifying the symbol for a socket.

Question 5(a)

The candidate was awarded **2 marks** for identifying the two correct layouts.

Question 5(b)(i)

The candidate was awarded **1 mark** for stating ‘drop shadow’.

Question 5(b)(ii)

The candidate was awarded **1 mark** for stating ‘transparency’.

Question 5(b)(iii)

The candidate was awarded **1 mark** for stating ‘reverse’.

Question 5(b)(iv)

The candidate was awarded **1 mark** for stating ‘text flow along a path’.

Question 5(c)

The candidate was awarded **2 marks** for this question as they make reference to yellow-orange being an ‘advancing color’ **(1 mark)** and being associated with ‘joy and sun’ **(1 mark)**.

Question 5(d)

The candidate was awarded **3 marks** for correctly completing the table with the colour types.

Question 5(e)

The candidate was awarded the maximum of **2 marks** for identifying the colour coding system **(1 mark)** and the shape coding system **(1 mark)**.

Question 6(a)

The candidate was awarded **2 marks** for correctly stating ‘Materials’ and ‘Lighting’.

Question 6(b)

The candidate was awarded **1 mark** because they explained the effect of adding realism.

Question 6(c)

The candidate was awarded **4 marks** for this question:

- dia. 125 circle extruded by 10 **(1 mark)**
- dia. 105 circle extruded by 80 **(1 mark)**
- dia. 95 circle is correct, but it would have to be extruded by 85mm not 75mm **(0 marks)**
- profile of the slot is correct **(1 mark)**
- extrude-subtract in one direction by more than 62.5mm **(1 mark)**.

Question 6(d)

The candidate was awarded the maximum of **6 marks** for this question by correctly identifying six British Standards errors in the drawing:

- ‘dimensions should be in order smallest to biggest’ – the candidate has clarified this statement by circling the dimensions in the drawing **(1 mark)**
- ‘”mm” is not needed’ **(1 mark)**
- ‘elevation is not the correct name for the view’ **(1 mark)**
- ‘centre line is not finished’ **(1 mark)**
- ‘end elevation is not the correct name for the view’ **(1 mark)**
- ‘it’s not dia. 30 but R15 for round corners’ **(1 mark)**

Question 6(e)(i)

The candidate was awarded **1 mark** as they stated that the symbol shows that 3rd angle projection was used.

Question 6(e)(ii)

The candidate was awarded **3 marks** for correctly stating three other pieces of information that should be included in the title block.

Question 6(f)

The candidate was awarded the maximum of **4 marks** for correctly calculating all dimensions.

Candidate 5

The candidate was awarded a total of **64 out of 80 marks**.

Question 1(a)(i)

The candidate was awarded **1 mark** because they correctly stated ‘Pie chart’.

Question 1(a)(ii)

The candidate was awarded **1 mark** because they made reference to percentages out of 100.

Question 1(b)

The candidate was awarded **3 marks** because they described the chunks increasing in size as the percentages increase, becoming darker in colour and the use of drop shadows to emphasise the most popular music.

Question 1(c)(i)

The candidate was awarded **1 mark** because they correctly stated ‘line Graph’.

Question 1(c)(ii)

The candidate was awarded **1 mark** because they referred to date over time.

Question 1(d)(i)

The candidate was awarded **1 mark** for this question. The first comment does not specify two elements so cannot be awarded a mark. ‘the “1002” being overlapped and using a drop shadow over the rest’ is a valid response **(1 mark)**.

Question 1(d)(ii)

The candidate was awarded **1 mark** for this question for ‘white lettering of “1002” and a year summary’. Although the candidate does not refer to the ‘year in summary’ specifically as being white, the reference to ‘1002’ being white is enough to award the mark given that the candidate is clearly describing unity of colour.

Question 1(d)(iii)

The candidate was awarded **2 marks** for this question for referring to the contrasting white text against the black line **(1 mark)** and between red shapes (‘blobs’) and dark black lines **(1 mark)**; this comment would actually attract 2 marks on its own due to the reference to shape and colour.

Question 1(e)

The candidate was awarded **0 marks** as they have not described alignment of the elements. They seem to understand alignment as being elements that are parallel to each other.

Question 2(a)(i)

The candidate was awarded **1 mark** because they clearly explained realism as a purpose for a promotional graphic.

Question 2(a)(ii)

The candidate was awarded **2 marks** because they provided two correct input devices to create a digital file from a hard copy.

Question 2(b)

The candidate was awarded **0 marks** for stating the incorrect scale of a site plan.

Question 2(c)

The candidate was awarded **1 mark** because they explained how contours show slopes.

Question 2(d)

The candidate was awarded **1 mark** for correctly stating ‘Northwest’.

Question 2(e)

The candidate was awarded **1 mark** for correctly stating ‘East’.

Question 2(f)

The candidate was awarded **1 mark** because they described a reduction in travel time/costs.

Question 3(a)

The candidate was awarded **6 marks** for the following:

- 45x45mm rectangle extruded by 80 **(1 mark)**
- fillet of R10 applied to edges **(1 mark)**
- 15x45mm sketch on bottom face and 10mm subtraction – the candidate’s handwriting looks like 25 rather than 15, but is consistent with the handwriting throughout the paper **(1 mark)**
- 25 dia. circle extruded by 10mm **(1 mark)**
- shell 2mm – even though the candidate has stated to select the ‘top of the bottom’ they have clearly shown the correct surface in the sketch; ‘bottom’ should read ‘bottle’ **(1 mark)**
- shell applied last **(1 mark)**

Question 3(b)(i)

The candidate was awarded **1 mark** because they correctly stated ‘Revolve’.

Question 3(b)(ii)

The candidate was awarded **1 mark** because they correctly stated ‘fillet’.

Question 3(b)(iii)

The candidate was awarded **1 mark** because they correctly stated ‘subtract’.

Question 3(c)(i)

The candidate was awarded **1 mark** because they identified the correct sectional view.

Question 3(c)(ii)

The candidate was awarded **1 mark** because they identified the correct sectional view.

Question 3(c)(iii)

The candidate was awarded **1 mark** because they identified the correct sectional view.

Question 3(d)

The candidate was awarded **0 marks** for this question. The term ‘mate’ was not used to describe the constraining process.

Question 4(a)

The candidate was awarded **0 marks** for this question. The marking instructions state that ‘show ideas’ on its own is not an accepted response **(0 marks)**. Had they gone on to describe that ideas can be shown to a client, this would have attracted a mark. The candidate’s second statement surrounding annotations is irrelevant **(0 marks)**.

Question 4(b)

The candidate was awarded **2 marks** for this question. The statement ‘easy to edit’ is a typical correct response for this question **(1 mark)**. The candidate’s second statement ‘can be shared quicker…’ relates to ease of sharing **(1 mark)**.

Question 4(c)

The candidate was awarded **1 mark** for this question because ‘can be easily shown to others’ refers to ease of sharing.

Question 4(d)

The candidate was awarded **1 mark** for identifying the correct true shape.

Question 4(e)

The candidate was awarded **0 marks** for identifying the incorrect symbol for a socket.

Question 5(a)

The candidate was awarded **2 marks** for identifying the two correct layouts.

Question 5(b)(i)

The candidate was awarded **1 mark** for stating ‘drop shadow’.

Question 5(b)(ii)

The candidate was awarded **0 marks** for incorrectly stating ‘opacity’.

Question 5(b)(iii)

The candidate was awarded **0 marks** for incorrectly stating ‘colour’.

Question 5(b)(iv)

The candidate was awarded **1 mark** for stating ‘flow text along a path’.

Question 5(c)

The candidate was awarded **2 marks** for this question as they make reference to yellow-orange being an advancing colour **(1 mark)** and contrasting with the dark background **(1 mark)**.

Question 5(d)

The candidate was awarded **3 marks** for correctly completing the table with the colour types.

Question 5(e)

The candidate was awarded the maximum of **2 marks** for identifying the colour coding system **(1 mark)** and showing a finished assembly. **(1 mark)**

Question 6(a)

The candidate was awarded **2 marks** for correctly stating ‘material’ and ‘lighting’.

Question 6(b)

The candidate was awarded **0 marks** because they explained that a CAD illustration shows the model in 3D, which is not an effect.

Question 6(c)

The candidate was awarded the maximum of **5 marks** for this question:

- correct profile fully dimensioned – although the 47.5mm dimension is missing, the candidate has added a 5mm wall thickness which would give the internal radius **(1 mark)**
- centre axis identified **(1 mark)**
- revolve 360 **(1 mark)**
- correct sketch of slot **(1 mark)**
- correct subtraction depth more than 15mm **(1 mark)**

Question 6(d)

The candidate was awarded the maximum of **6 marks** for this question by correctly identifying six British Standards errors in the drawing:

- ‘should be diameter’, R4, R52.5 and R47.5 – the candidate has correctly identified three different errors with radial dimensions that should be shown as diameters **(3 marks)**
- ‘should be r’ **(1 mark)**
- ‘shows mm’ **(1 mark)**
- ‘no centre lines for circle’ **(1 mark)**

Hidden detail and outward curve comments are invalid and would not attract any marks.

Question 6(e)(i)

The candidate was awarded **0 marks** as the response does not make any reference to how views are projected or laid out.

Question 6(e)(ii)

The candidate was awarded **2 marks** for correctly stating two pieces of information that should be included in the title block. ‘Measurement’ is not a recognised piece of information that should be included in a title block.

Question 6(f)

The candidate was awarded the maximum of **4 marks** for correctly calculating all dimensions.