

(d) The sizes of the parts of the bedside table are shown on page 5 and 6 of Parts (all 20 mm thick pine) Brackets (5 mm thick steel) the leaflet. On the centre lines below draw to a scale of 1:5 the following orthographic views of the fully assembled bedside table: (i) a front view; [8] top [2] (ii) a plan. Estimate any dimensions not given. <u>base A</u> Wood screws Do not show hidden detail. × 8 200 base B 500 / page 6 page 5 **↓**400 pages 5 and 6 of the leaflet front view (e) In the space below draw the symbol to show the type of orthographic projection used in 1 (d). [3] ______ ____ _------(f) Complete the table below to show the sizes of the materials required to make the bedside table. [2] Part Material Length Width Thick No. Ø600 1 Тор Pine Base A Pine 500 400 20 1 500 400 20 Pine 1 Base B 80 4 Bracket Steel 5 plan [Turn over Examiner's use only Candidate Surname Other Names Centre Number Candidate Number





4 (a) A birthday card with a mechanism is shown on the right. Complete the drawings of the three cards below by adding a mechanism to: (i) card A that will make X move out when Y is pulled; [3] (ii) card B that will make X appear in the bottom window; [3] moving pivot [4] (iii) card C that will make X and Y move from side to side when Z is pushed and pulled. Label all pivots and use arrows to show the direction of movement. fixed pivot card with a mechanism Y *H PPY* BIT DY! *HAPPY* **BIRTHDAY!** Х Х Ζ *HAPPY* Y BIRTHDAY! card B card C card A (b) The sales of cards A, B and C in 2013 are shown in the table below. (c) Orthographic views of a mechanism for a pop up card are shown below. 120 card B card C card A 6000 8500 4500 Sales 40 80 (i) In the space below draw a bar chart to show the sales of card 40 A, B and C in 2013. Use colour and labels to enhance the $\odot \Box$ appearance of the bar chart. [5] 80 Α A front view end view (i) Draw a scale 1:2 isometric view of the pop up card from the start point A. [6] (ii) Use thick and thin line technique to enhance the appearance of the isometric drawing of the mechanism for the pop up card. [2] (ii) A bar chart is one method of graphically presenting data. Name **two** other methods of graphically presenting data. [2] 1. 2. • A [Turn over Examiner's use only Candidate Surname Other Names Centre Number Candidate Number



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