

Answers and marking guidance

Award one mark per correct, developed point unless stated. Other valid answers should be credited.

2 Describe how one half of the bridle joint would be marked out. You should refer to the tools used.

- Measure the width of the mating piece from the end with a steel rule and pencil
- Square the shoulder line all round with a try square (and marking knife)
- Set a mortise gauge to the chisel width and gauge the two lines from the face side
- Hatch the waste to be removed

No marks for: A list of tools; Marking gauge for both lines scores only if two settings are described

3 Quick check

- a) Mortise gauge
- b) Engineer's square and scriber
- c) Odd-leg callipers
- d) To cut the fibres for a clean saw cut

4 Key terms

- 1 – A
- 2 – E
- 3 – C
- 4 – F
- 5 – B
- 6 – D

5 Describe how the corner radius and the hole centre would be marked out.

- Apply engineer's blue so lines show
- Use odd-leg callipers from the datum edges to scribe lines locating the centres
- Centre punch the hole centre and the radius centre
- Set spring dividers to 15 mm and scribe the arc from the punched centre

No marks for: Compass or try square; No tools named: max 1

6 Describe how the bracket would be marked out. You should refer to the tools used.

- Coat the surface with engineer's blue so lines show clearly
- Measure positions with a steel rule and scribe lines with a scriber
- Square lines from an edge with an engineer's square
- Mark lines parallel to an edge with odd-leg callipers
- Mark hole centres with a centre punch and ball-pein hammer
- Scribe arcs and circles with spring dividers

No marks for: A list of tools; Try square or compass (wrong tools for metal); No tools named: maximum 1 mark