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|---|--|-----|---|--|--|
| 1 | | 270 | 4 | B3 for 250 Or M2 for correct calculation for weight of nails $20 \times 10 \times 5 \times 0.25$ oe Or M1 for correct conversion between g and kg and cm and m | |
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| 2 | (a) | 25.4 to 25.5 | 2 | M1 for $28 \div 1.1$ | |
| | (b) | 399 or 400 | 3 | B2 for 399.3 Or M1 for 1.1^3 oe seen | |

| Question | | Answer | Marks | Part Marks and Guidance | |
|----------|---------|--|-------------|---|---|
| 3 | (a) | 7½×2½ in correct place on grid 5×2½ in correct ft place on grid 7½×5 in correct ft place on grid | 1 1 1 | | Condone freehand. Ignore tabs -1 for extra rectangles |
| | (b) | 13750 | 3 | M2 for $(50 \times 75 + 50 \times 25 + 25 \times 75) \times 2$ oe Or M1 for any two of 50×75, 50×25, 25×75 <u>After 0 scored</u> Allow SC1 for answer 137.5 | Soi by 7500, 2500, 3750 Condone 1 numerical slip Soi by 3750, 1250, 1875 For M1 and M2 allow working to scale (ie using 5, 7.5, 2.5) |
| | (c) (i) | 125 | 2 | M1 for 5×5×5 soi | |
| | (ii) | 750 | 3 | M2 for 10×15×5 Or for <u>50×75×25</u> <i>their</i> 125 Or M1 for dividing one length by 5 soi Or for 93750 seen | |

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|----------|------------|--|---------------------------|----------|---|---|
| 4 | (a) | | 84 | 2 | M1 for $7 \times 3 \times 4$ | |
| | (b) | | Correct isometric drawing | 3 | For 3 marks condone hidden edges shown as dotted lines Or B2 for correct isometric drawing but with hidden edges shown solid or incorrect Or B1 for one correct face | Allow freehand if intention clear – ie just misses dot Ignore any non-edge lines |

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|----------|------------|-------------|------|----------|---|--|
| 5 | (a) | | 60 | 3 | M2 for $1200 \div 20$ Or M1 for <i>their</i> $(1200) \div 20$ soi by answer figs 6 | |
| | (b) | (i) | 1500 | 3 | M2 for <i>their</i> $(60) \times 5^2$ Or B1 for s.f. 5 soi | |
| | | (ii) | 150 | 2 | M1 for 1.2×5^3 soi Or for <i>their</i> $(1500) \times 100/1000$ soi | |

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|----------|------------|--|--|----------------|--|---|
| 6 | (a) | | 22 700 | 3 | SC2 for answer 23 400 or 18 850 OR M2 for $2(60 \times 55 + 60 \times 70 + 55 \times 70)$ oe Or M1 for two of 60×55 , 60×70 , 55×70 seen | 4 faces same or open top Soi by 3300, 4200, 3850 or by 6600, 8400, 7700 |
| | (b) | | $60 \times 55 \times 70$ 231 000 <i>Their</i> volume $\div 1000$ | M1 A1 M1 | Independent of first M mark May be implied by $1000 \text{ cm}^3 = 1 \text{ litre}$ | |
| | (c) | | 6 mins 25 secs | 3 | M1 for $231 \div 0.6$ A1 for 385 soi by 6.416...rot | |