Band 4 – Test 3 Answers

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| 1. | 60 – 48 = 1212 ÷ 48 x 100 = 25% | 1 mark for calculating change value1 mark for change x 100 original1 mark for correct answer | 3 |
| 2. | 200 x 1.4 = €280 | 1 mark for multiplying by exchange rate1 mark for correct answer | 2 |
| 3. | 123.4mm 122.5mm 123.48mm 124mm 123.5mm | Correct answer | 1 |
| 4. | 20 x 4 = 80 = 400 0.2 0.2 | 1 mark for rounding one value to 1 significant figure1 mark for rounding all values to 1 significant figure1 mark for correct answer | 3 |
| 5. | m10 | Correct answer | 1 |
| 6. | 3 x 107 0.002 | 1 mark for each correct answer | 2 |
| 7. | 4gh(3g – 4h)2t² - 12t + 5t – 302t² - 7t - 30 | 1 mark for partially factorisedOr 2 marks for fully factorised1 mark for expanding correctly1 mark for simplifying correctly | 4 |

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| 8. | 4(2x + 1) = 2(3 – x) 8x + 4 = 6 – 2x 10x + 4 = 6 10x = 2 x = 2 = 1 10 5 | 1 mark for correctly expanding brackets1 mark for 10x = 21 mark for correct answer | 3 |
| 9. |  p = 2q + 10p – 10 = 2qp – 10 = q 2 | 1 mark for -10 or ÷21 mark for correct answer | 2 |
| 10. | 3x + 2 > -7 3x > -9 x > -3 | 1 mark for 21 mark for correct inequality symbol used | 2 |
| 11. | Exterior angle = 180 – 156 = 24º360 ÷ 24 = 15 sides | 1 mark for calculating exterior angle1 mark for 360 ÷ exterior angle1 mark for correct answer | 3 |
| 12. | Correct angle bisector with all construction lines present | 1 mark for correct answer1 mark for construction lines | 2 |
| 13. |  | 1 mark for identifying C of E1 mark for an enlargement of scale factor 21 mark for fully correct enlargement1 mark for identifying y = 41 mark for fully correct reflection | 5 |
| 14. | $\sqrt{157^{2}+168^{2}}= \sqrt{24649+28224}= \sqrt{52873}$ = 230 km | 1 mark for 1.7² and 3.2²1 mark for adding and square rooting1 mark for correctly rounded answer | 3 |

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| 15. | 15 mins | 1 mark for correct answer1 mark for correct rest line1 mark for correct line representing the journey home | 3 |
| 16. | (5 x 7) + (3 x 7) + (4 x 7) + 2(½ x 4 x 3)= 35 + 21 + 28 + 12= 96 cm² | 1 mark for area of at least 2 faces1 mark for all areas calculated1 mark for correct answer rounded correctly | 3 |
| 17. | Describe stratified sampling methodDescribe relative frequency method | 1 mark for each correct answer | 2 |
| 18. | Negative correlationCorrect line segment that can be used as a line of best fitAccept answers between 3 and 4 | 1 mark for each correct answer | 3 |
| 19. | Options overlap OR no timeframe OR not exhaustiveSame age/not varied enough | 2 marks for 2 correct1 mark for correct answer | 3 |
| 20. |  | 1 mark for correct answer for first bag1 mark for correct answers for second bag | 2 |