Band 4 – Test 2 Answers

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| 1. | 565 – 500 = 6565 ÷ 500 x 100 = 13% | 1 mark for calculating change value1 mark for change x 100 original1 mark for correct answer | 3 |
| 2. | 475 x 1.57 = €745.75 | 1 mark for multiplying by exchange rate1 mark for correct answer | 2 |
| 3. | 35.5 secs 34.4 secs 34.5 secs 34 secs 34.9 secs | Correct answer | 1 |
| 4. | 400 x 6 = 2400 = 12000 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. | f18 | Correct answer | 1 |
| 6. | 4 x 107 0.000014 | 1 mark for each correct answer | 2 |
| 7. | 3m(2n – 3m)g² + 7g – 3g – 21g² + 4g - 21 | 1 mark for partially factorisedOr 2 marks for fully factorised1 mark for expanding correctly1 mark for simplifying correctly | 4 |

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| 8. | 5p + 7 = 3(4 – p)5p + 7 = 12 – 3p8p + 7 = 12 8p = 5 P = 5/8 | 1 mark for correctly expanding brackets1 mark for 8p = 51 mark for correct answer | 3 |
| 9. |  m = 5n – 21m + 21 = 5nm + 21 = n 5 | 1 mark for +21 or ÷51 mark for correct answer | 2 |
| 10. | 5x + 12 > 2 5x > -10 x > -2 | 1 mark for 21 mark for correct inequality symbol used | 2 |
| 11. | 360 ÷ 10 = 36º180 – 36 = 144ºOR(10 – 2) x 180 = 144º 10 | 1 mark for calculating exterior angle1 mark for 180 – exterior angle1 mark for correct answerOR1 mark for calculating total interior angles1 mark for ÷ 101 mark for correct answer | 3 |
| 12. | Correct perpendicular 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 x = 41 mark for fully correct reflection | 5 |
| 14. | $\sqrt{1.7^{2}+3.2^{2}}= \sqrt{2.89+10.24}= \sqrt{13.13}$ = 3.62353… = 3.62 cm | 1 mark for 1.7² and 3.2²1 mark for adding and square rooting1 mark for correctly rounded answer | 3 |
| 15. | 6 km20 mins24 km | 1 mark for each correct answer | 3 |
| 16. | 4² x π x 10 = 16π x 10 = 502.6548… = 503 cm³ | 1 mark for correctly calculating area of cross section1 mark for multiplying by depth1 mark for correct answer rounded correctly | 3 |
| 17. | Only asking people who will definitely be using sports facilitiesAsk somewhere else | 1 mark for each correct answer | 2 |
| 18. | The more people in towns, the fewer in farming jobs OR the fewer people in towns, the more people in farming jobs OR negative correlationCorrect line segment that can be used as a line of best fitAccept answers between 55 and 60 | 1 mark for each correct answer | 3 |
| 19. | No negative optionCheck for question with timeframe and exhaustive options that do not overlap | 1 mark for correct answer1 mark for question1 mark for options | 3 |
| 20. |  | 1 mark for correct answer for snooker1 mark for correct answers for billiards | 2 |