Band 3 – Test 1 Answers

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| 1. | - = - =  3 x 1 = x = = 4 = 4 | 1 mark for a correct common denominator  1 mark for correct answer  1 mark for correct improper fractions  1 mark for a correct multiplication of fractions  1 mark for correct answer | 5 |
| 2. | 53 x 94    53 x 94 = 4982  5.3 x 0.94 = 4.982 | 1 mark for multiplying correct integers  1 mark for correct multiplication  1 mark for correct location of dp | 3 |
| 3. | 10% = £9.40  10% = £9.40  10% = £9.40  5% = £4.70  \_\_1% = £0.94  36% = £33.84  £94 - £33.84 = £60.16 | 1 mark for calculating 36%  1 mark for subtracting 36% from £94  1 mark for correct answer | 3 |

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| 4. | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 53% |  | 0.7 |  |  | | 0.53 | 0.625 | 0.7 | 0.67 | 0.6 | |  |  |  |  |  | | 53% |  |  |  | 0.7 | | 1 mark for 3 correct equivalent FDPs  1 mark for correct order | 2 |
| 5. | 70g ÷ 5 = 14g  14 x 2 = 28g of cheese  14 x 3 = 42g of topping | 1 mark for calculating the value of one part  1 mark for each correct answer | 3 |
| 6. | 2.57 x 34 = 87.38 873.8 ÷ 2.57 = 340 | 1 mark for each correct answer | 2 |
| 7. | 1.240154521 1.24 | 2 marks for correct calculation  1 mark for correct rounding | 3 |
| 8. | t3 m2 | 1 mark for each correct answer | 2 |
| 9. | ½ | Correct answer | 1 |
| 10. | mn2 – m2n | Correct answer | 1 |
| 11. | 5p + 7 = 12 – 3p  8p + 7 = 12  8p = 5  p = 5/8 | 1 mark for 8p = 5  1 mark for correct answer | 2 |
| 12. | 2c + 4r | 1 mark for 2c  1 marks for 4r | 2 |
| 13. |  | Correct answer | 1 |
| 14. | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **x** | -2 | -1 | 0 | 1 | 2 | | **y** | -5 | -1 | 3 | 7 | 11 | | 1 mark for at least 2 y values correct  Or 2 marks for all 3 values correct  1 mark for coordinates plotted correctly  1 mark for straight line segment through coordinates | 4 |

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| 15. | 48º  Alternate angles are equal  30º  Corresponding angles are equal | 1 mark for each correct answer  1 mark for each correct reason | 4 |
| 16. |  | 1 mark for each correct angle  1 mark for C correctly located | 3 |
| 17. | (8 x 9) + (½ x 12 x 5) = 72 + 30 = 102 cm² | 1 mark for correct area of triangle  1 mark for correct area of rectangle  1 mark for correct total area | 3 |
| 18. | 8 x 3 x 4 = 96 cm³ | 1 mark for multiplying correct dimensions  1 mark for correct answer | 2 |
| 19. | 75 x 3 = 225 km | 1 mark for speed x time  1 mark for correct answer | 2 |
| 20. | |  |  |  | | --- | --- | --- | | **Snack** | **Frequency** | **Angle** | | Burger | 20 | 80º | | Chips | 45 | 180º | | Hot dog | 10 | 40º | | Kebab | 15 | 60º | | **Total** | **90** | **360º** | | 1 mark for measuring angles correctly  1 mark for ¼ or ÷4 seen  1 mark for 10 and 15 | 3 |
| 21. | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Coin | Dice | | | | | | | |  | **1** | **2** | **3** | **4** | **5** | **6** | | **1** | 2 | 3 | 4 | 5 | 6 | 7 | | **2** | 3 | 4 | 5 | 6 | 7 | 8 | | **3** | 4 | 5 | 6 | 7 | 8 | 9 | | **4** | 5 | 6 | 7 | 8 | 9 | 10 | | **5** | 6 | 7 | 8 | 9 | 10 | 11 | | **6** | 7 | 8 | 9 | 10 | 11 | 12 |   P(6) = 5/36 | 1 mark for correctly completing sample space diagram  1 mark for identifying 36 possible outcomes  1 mark for 5 6s. | 3 |