Band 3 – Test 1 Answers

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| 1. | $\frac{6}{7}$ - $\frac{2}{5}$ = $\frac{30}{35}$ - $\frac{14}{35}$ = $\frac{16}{35}$3 $\frac{1}{3}$ x 1 $\frac{3}{8}$ = $\frac{10}{3}$ x $\frac{11}{8}$ = $\frac{110}{24}$ = 4 $\frac{14}{24}$ = 4 $\frac{7}{12}$ | 1 mark for a correct common denominator1 mark for correct answer1 mark for correct improper fractions1 mark for a correct multiplication of fractions1 mark for correct answer | 5 |
| 2. | 53 x 9453 x 94 = 49825.3 x 0.94 = 4.982 | 1 mark for multiplying correct integers1 mark for correct multiplication1 mark for correct location of dp | 3 |
| 3. |  10% = £9.40 10% = £9.40 10% = £9.40 5% = £4.70\_\_1% = £0.9436% = £33.84£94 - £33.84 = £60.16 | 1 mark for calculating 36%1 mark for subtracting 36% from £941 mark for correct answer | 3 |

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| 4. |

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| 53% | $\frac{5}{8}$  | 0.7 | $\frac{2}{3}$  | $\frac{3}{5}$  |
| 0.53 | 0.625 | 0.7 | 0.67 | 0.6 |
|  |  |  |  |  |
| 53% | $\frac{3}{5}$  | $\frac{5}{8}$  | $\frac{2}{3}$  | 0.7 |

 | 1 mark for 3 correct equivalent FDPs1 mark for correct order | 2 |
| 5. | 70g ÷ 5 = 14g14 x 2 = 28g of cheese14 x 3 = 42g of topping  | 1 mark for calculating the value of one part1 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 calculation1 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 – 3p8p + 7 = 12 8p = 5 p = 5/8 | 1 mark for 8p = 51 mark for correct answer | 2 |
| 12. | 2c + 4r | 1 mark for 2c1 marks for 4r | 2 |
| 13. |  | Correct answer | 1 |
| 14. |

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| **x** | -2 | -1 | 0 | 1 | 2 |
| **y** | -5 | -1 | 3 | 7 | 11 |

 | 1 mark for at least 2 y values correctOr 2 marks for all 3 values correct1 mark for coordinates plotted correctly1 mark for straight line segment through coordinates | 4 |

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| 15. | 48ºAlternate angles are equal30ºCorresponding angles are equal | 1 mark for each correct answer1 mark for each correct reason | 4 |
| 16. |  | 1 mark for each correct angle1 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 triangle1 mark for correct area of rectangle1 mark for correct total area | 3 |
| 18. | 8 x 3 x 4 = 96 cm³ | 1 mark for multiplying correct dimensions1 mark for correct answer | 2 |
| 19. | 75 x 3 = 225 km | 1 mark for speed x time1 mark for correct answer | 2 |
| 20. |

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| **Snack** | **Frequency** | **Angle** |
| Burger | 20 | 80º |
| Chips | 45 | 180º |
| Hot dog | 10 | 40º |
| Kebab | 15 | 60º |
| **Total** | **90** | **360º** |

 | 1 mark for measuring angles correctly1 mark for ¼ or ÷4 seen1 mark for 10 and 15 | 3 |
| 21. |

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| 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 diagram1 mark for identifying 36 possible outcomes1 mark for 5 6s. | 3 |