Band 3 – Test 3 Answers

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| 1. | $\frac{1}{3}$ + $\frac{2}{5}$ = $\frac{5}{15}$ + $\frac{6}{15}$ = $\frac{11}{15}$3 $\frac{1}{4}$ x 2 $\frac{3}{5}$ = $\frac{13}{4}$ x $\frac{13}{5}$ = $\frac{169}{20}$ = 8 $\frac{9}{20}$ | 1 mark for a correct common denominator1 mark for correct answer1 mark for correct improper fractions1 mark for correct multiplication of fractions1 mark for correct answer | 5 |
| 2. | 24 = 240 = 1200.2 2 | 1 mark for correct fraction1 mark for correct equivalent fraction1 mark for correct answer | 3 |
| 3. |  10% = £4.50 5% = £2.25 15% = £6.75£45 + £6.75 = £51.75 | 1 mark for calculating 15%1 mark for adding 15% to £451 mark for correct answer | 3 |
| 4. |

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| 65% | $\frac{3}{4}$  | 0.72 | $\frac{2}{3}$  | $\frac{3}{5}$  |
| 0.65 | 0.75 | 0.72 | 0.67 | 0.6 |
|  |  |  |  |  |
| $\frac{3}{5}$  | 65% | $\frac{2}{3}$  | 0.72 | $\frac{3}{4}$  |

 | 1 mark for 3 correct equivalent FDPs1 mark for correct order | 2 |
| 5. | 210 ÷ 3 = 70 km3 + 4 + 4 = 11 parts70 x 11 = 770 km | 1 mark for identifying value of 1 part1 mark for calculating number of parts1 mark for correct answer | 3 |
| 6. | 9.7 x 12.3 = 119.31 0.97 x 123000 = 119310 | 1 mark for each correct answer | 2 |
| 7. | 2.004875737 2.00 | 2 marks for correct calculation1 mark for correct rounding | 3 |
| 8. | t10 p3 | 1 mark for each correct answer | 2 |
| 9. | 1/5 | Correct answer | 1 |
| 10. | 5t² - 10t | Correct answer | 1 |
| 11. | 7p + 2 = 5p + 82p + 2 = 8 2p = 6 p = 3 | 1 mark for 2r = -221 mark for correct answer | 2 |
| 12. | C = 10(n + 3) | 1 mark for n + 31 marks for x10 | 2 |
| 13. | x ≤ 3 | Correct answer | 1 |

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| 14.  |

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

 | 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. | 38ºAlternate angles are equal109ºBase angles in an isosceles triangle are equal OR angles in a triangle sum to 180º OR angles on a straight line sum to 180º | 1 mark for each correct answer1 mark for each correct reason | 4 |
| 16. | 076º | 1 mark for correct answer1 mark for correct angle1 mark for C correctly located | 3 |
| 17. | (12 x 10 x ½) – (3 x 5) = 60 – 15 = 45 cm² | 1 mark for correct area of triangle1 mark for correct area of rectangle1 mark for correct total area | 3 |
| 18. | 4 x 4 x 4 = 64 cm³ | 1 mark for volume ÷ 501 mark for correct answer | 2 |
| 19. | 87 ÷ 36 = 2.41666… = 2 hours and 25 minutes09 25 | 1 mark for distance ÷ speed1 mark for correct answer | 2 |

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| 20. |

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| **Choice** | **Frequency** | **Angle** |
| Full meal | 150 | 75º |
| Hot snack | 240 | 120º |
| Cold snack | 220 | 110º |
| Packed lunch | 110 | 55º |
| **Total** | **720** | **360º** |

 | 1 mark for ÷ 2 seen1 mark for correctly calculating angles1 mark for correctly drawn pie chart with labels | 3 |

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| 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(9) = 4/36 | 1 mark for correctly completing sample space diagram1 mark for identifying 36 possible outcomes1 mark for 4 9s. | 3 |