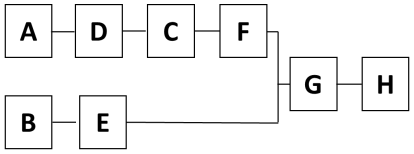
N5 Apps Practice Paper C Paper 2 Marking Scheme

1	•[1] Subtract amount •[2] find percentage •[1] Find the multiplier •[2] Correct power •[3] Amount Calculated •[4] Round correctly	•[1] 1816000 – 1780000 = 36000 •[2] 36000/1780000 x 100 = 2.02% •[1] 1.0125 •[2] 1816000 x 1.0125^5 •[3] 1932373 •[4] £1932000	
2	•[1] Maximum size •[2] Knows to multiply •[3] Finds Area (with units) •[4] Rounded	•[1] 1515cm by 630cm •[2] 1515 x 630 •[3] 954450cm^2 or 94.445m^2 •[4] 94m^2	
3	•[1] Find volume of the cuboid •[2] Volume of a hemisphere formula •[3] Add volumes •[4] Rounding	•[1] 8 x 40 x 40 = 12800 •[2] $\frac{1}{3}\pi \times 17^2 \times 66 = 19974.2$ •[3] 12800 + 19974 = 32774.2 •[4] 32800cm^3	
4	•[1] Pythagoras •[2] find the side AB •[1] Find area one area •[2] Add two together	•[1] $5^2 + 4^2 = 41$ •[2] 6.4 •[1] 0.5 x 5 x 4 = 10, 0.5 x 6.4 x 7 = 22.4 •[2] 10 + 22.4 = 32.4	
5	•[1] Find area •[1] Find cost •[1] Area of rectangle or triangle •[2] Total area •[3] Number of rolls required •[1] Total cost •[1] Man hours required •[1] Hours for two men •[1] Find up front fee •[1] Instalments	•[1] 2.4 x 6.2 = 14.88m^2 •[1] 14.88 x 3.99 = £59.37 •[1] 4.5 x 6.4 = 28.8 •[2] 28.8 + 5.44 = 34.24 •[3] 4 rolls •[1] £96 •[1] 3 x 4 = 12 hours •[1] 6 hours •[1] 25% of 200 = 50 •[1] 10 x 10.99 = 109.90	

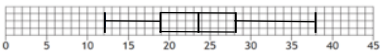
	•[1] Final payment	•[1] 200 – 159.90 = £40.10	
6	•[1] Form table •[2] Correct calculations •[3] Most stated •[1] Multiply number of boxes by price •[2] Add on price of container •[1] Correct Calculation •[2] Convert into hours and minutes •[1] Add time •[2] Subject time difference	•[1] •[2] •[3] 2500 boxes •[1] 2500 x 1.50 = 3750 •[2] £5200 •[1] 3500/400 = 8.75 •[2] 8 hours and 45 minutes •[1] 9am + 8 hours 45 minutes = 5.45pm •[2] 12.45pm	
7	•[1] Find Median •[2] Find $(x - \underline{x})^2$ •[3] Formula •[4] State median Q1 and Q3 •[1] Compare Averages •[2] Compare Standard Deviation	•[1] 46.5 •[2] 56.25, 2.25, 6.25, 6.25, 6.25, 72.25 •[3] $\sqrt{\frac{149.5}{5}}$ •[4] 5.46 •[1] The average time for the race to be completed was lower in the second race than the first. •[2] The times in the second race were most consistent compared to the first.	
8	•[1] 4 correct •[2] 4 correct •[3] Add time	•[1] See diagram •[2] see diagram  •[3] 4.12 + 26 mins = 4.38pm	

<table>
<tr><td></td><td></td><td></td><td></td></tr>
<tr><td>9</td><td>•1 Put numbers in order
•2 State median Q1 and Q3

•1 Drawn Lowest and highest
•2 Drawn Median, Q1 and Q3

•1 State SIQR

•1 Comparisons</td><td>•1 Evidence shown
•2 19, 23.5 and 28

•1 See diagram
•2 See diagram
 

•1 4.5

•1 On average Ring deals sold more phones in each location. The spread of phone sales in different cities was greater for Ringing deals than Phones R Us.</td><td></td></tr>
<tr><td>10</td><td>•1 Add up
•2 Find the angles of each

•3 Construct Pie Chart</td><td>•1 165 + 130 + 60 + 95
•2
<table><tr><td>Walked</td><td>165/450 x 360 = 132</td></tr><tr><td>Bus</td><td>104</td></tr><tr><td>Train</td><td>48</td></tr><tr><td>Car</td><td>76</td></tr></table>
•3 Diagram drawn</td><td></td></tr>
<tr><td>11</td><td>•1 4 points drawn correctly
•2 Remaining 4 points drawn correctly

•1 Draw line of best fit

•1 Use line of best fit

•1 Input into formula
•2 Correct interpretation</td><td>•1 See diagram

•2 See diagram.

•1 See diagram

•1 45kg

•1 $45/1.35^2 = 24.7$
•2 Between 18.5 and 24.9 therefore it is normal</td><td></td></tr>
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