## Highfield Functional Skills Qualification in Mathematics at Level 2 PAPERCODE: FSQN211P

| Question | Total marks | Subject content | Process | Marker annotation | Accepted answer<br>AFT = allow follow through CAO = correct answer only |
|---|---|---|---|---|---|
| **Underpinning Knowledge** | | | | | |
| **1** | **2** | **23** | Evidence of ordering values | 1a | CAO<br>10, 15, 19, 21, 24, 36, 36, 36, 45, 48, 50, 92 |
| | | **23** | Calculate the median | 1b | CAO<br>36 |
| **2** | **2** | | | 2CA | CAO<br>54.4 |
| | | **If the answer is incorrect revert to:** | | | |
| | | **10** | Multiply the numbers without the decimal | 1a | CAO<br>64 x 85 = 5440<br>*Allow for other valid methods* |
| | | **10** | Add in the decimal point correctly | 1b | AFT<br>54.4(0) |
| **Problem-Solving** | | | | | |
| **3** | **3** | | | 3CA | CAO<br>(£)111.24 |
| | | **If the answer is incorrect revert to:** | | | |
| | | **13** | Calculate 6% of £900 | 1a | CAO<br>(£)54.00 or (£)954 |
| | | **13** | Calculate the compound interest on years 2 | 1b | AFT<br>(£)57.24 or (£)1011.24 |
| | | **13** | Calculate the total interest earned in the 2 years | 1c | CAO<br>(£)1011.24 – (£)900 = (£)111.24 |

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| **4** | **4** | | | 4CA | CAO<br>96<br>*0 marks for working out using volume* |
| | | **If the answer is incorrect revert to:** | | | |
| | | **10** | Uses correct method to calculate the number of boxes that would fit the given width, depth and height | 1a | CAO<br>(120 ÷ 14 or 1.2 ÷ 0.14)<br>(60 ÷ 14 or 0.6 ÷ 0.14)<br>(80 ÷ 25 or 0.8 ÷ 0.25) |
| | | **10** | Finds two out of three of the correct answers | 1b | AFT<br>(120 ÷ 14 or 1.2 ÷ 0.14) = 8<br>(60 ÷ 14 or 0.6 ÷ 0.14) = 4<br>(80 ÷ 25 or 0.8 ÷ 0.25) = 3 |
| | | **10** | Finds all three correct answers | 1c | AFT<br>(120 ÷ 14 or 1.2 ÷ 0.14) = 8<br>(60 ÷ 14 or 0.6 ÷ 0.14) = 4<br>(80 ÷ 25 or 0.8 ÷ 0.25) = 3 |
| | | **17** | Calculate the maximum number of boxes | 1d | CAO<br>(8) x (4) x (3) = (96) |
| **5** | **3** | | | 3CA | CAO<br>25% |
| | | **If the answer is incorrect revert to:** | | | |
| | | **26** | Uses appropriate method to calculate probability | 1a | CAO<br>$\frac{1}{5} \times \frac{1}{4}$<br>OE |
| | | **27** | Finds correct fraction | 1b | CAO<br>$\frac{1}{20}$ |
| | | **27** | Converts fraction to correct percentage | 1c | 5% |

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| **6** | **3** | | | 3CA | CAO<br>15:00 or 3:00 pm | |
| | | **If the answer is incorrect revert to:** | | | | |
| | | **15** | Calculate the total number of miles travelled. | **1a** | CAO<br>300 (miles) | Alternative method:<br>CAO<br>Calculates the time taken for each part of the journey<br>*1 mark for 3 correct calculations*<br>55 ÷ 50 = 1.1<br>110 ÷ 50 = 2.2<br>135 ÷ 50 = 2.7 |
| | | **15** | Calculate the total hours travelled | **1b** | AFT<br>(300) ÷ 50 = 6 (hours) | AFT<br>1.1 + 2.2 + 2.7 = 6 (hours) |
| | | **15** | Calculate the time you will arrive back at the depot | **1c** | CAO<br>3:00pm or 15:00 *(must include 1 hour for deliveries)* | |