## National 5 Lifeskills mathematics

Non - Calculator

	Marking Scheme	Evidence
1.	<ul> <li>ANS :Elaine has more data</li> <li>Know how to calculate fraction</li> <li>Know how to calculate fraction</li> <li>Conclusion with comparison</li> </ul>	<ul> <li>0.57 or 0.62</li> <li>0.57 or 0.62</li> <li>Elaine as 0.62</li> <li>&gt;0.57</li> </ul>
2.	ANS:34.40 euros  • Calculate euros at lowest  • Calculate euros at highest  • Comparison	<ul> <li>500 x 1.1949 =</li> <li>597.45</li> <li>500 x 1.2637 =</li> <li>631.85</li> <li>631.85 - 597.45</li> </ul>
3.	ANS: Yes, 0.0625 < 0.083  • Calculate gradient  • statement	<ul> <li>0.5 / 8 = 0.0625</li> <li>Yes as 0.0625 </li> <li>0.083</li> </ul>

## Calculator

Question	Marking Scheme	Evidence
4.	ANS: £117.50	• 0.29
	<ul> <li>Evaluate table</li> </ul>	• 0.29 × 250 (=
	<ul> <li>Know to calculate cost of miles</li> </ul>	72.50)
	<ul> <li>Know to calculate cost of</li> </ul>	• 0.15 × 300 (=45)
	additional miles	• 72.50 + 45 =
	<ul> <li>Calculate total expenses</li> </ul>	117.50
5.	ANS:5 hours	
	<ul> <li>Know how to calculate basic rate</li> </ul>	• 296/40 = 7.40
	<ul> <li>Know to calculate overtime rate</li> </ul>	• 7.40 × 1.5 = 11.10
	<ul> <li>Calculate hours of overtime</li> </ul>	• 55.50/11.1 = 5
6.(a)	ANS :20160	
	<ul> <li>Know how to calculate mean</li> </ul>	• (8900+ 12700+
		59200+ 10300+
		9700)/5 = 20160
(b)	ANS : Median with explanation	<ul> <li>Median because it</li> </ul>
	<ul> <li>Decision</li> </ul>	is closer to the
		majority of the
		values or because
		59200 makes the
		mean higher.
7. (a)	ANS :It is cheapest per Litre	
	<ul> <li>Know to calculate cost per litre</li> </ul>	• 1.995, 1.66 or 1.62
	<ul> <li>Calculate cost per L of other 2</li> </ul>	<ul> <li>Other 2 values</li> </ul>
	<ul> <li>Comparison with justification</li> </ul>	<ul> <li>Coverlite is the</li> </ul>

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		cheapest per
		Litre
(b)	<ul> <li>ANS: Tuffcote is cheapest per m²</li> <li>Know to calculate cost per m²</li> <li>Calculate other values</li> <li>Conclusion with justification</li> </ul>	<ul> <li>0.12468, 0.118 or 0.12461</li> <li>Other 2 values</li> <li>Tuffcote is the cheapest per m² so best value.</li> </ul>
8.	<ul> <li>ANS: No, 77.5kg &gt; 73kg</li> <li>Know to decrease by 6%</li> <li>Calculate weight after decrease</li> <li>Conclusion with justification</li> </ul>	<ul> <li>0.94</li> <li>95 x (0.94)<sup>5</sup> = 77.5</li> <li>No as he will be over his target weight, 77.5 &gt; 73</li> </ul>