Best Buy Mark Scheme		
1	Single $= 1500$ ml 1 ml $= 0.1$ p	[1] Find base unit cost
	Multipack $= 6 \times 330 = 1980$ ml 1 ml $= 0.08\dot{5}$ p	[1] Find base unit cost
	Multi pack is cheaper	[1] Correct comparison of value
2	Desk $= \frac{250}{4} = 62.5$ packs Delaware $= \frac{250}{2} = 125$ packs	[1] Calculation of number of packs
	Desk $= 63$ packs $= 63 \times £9.95 = £626.85 + £4.95 = £631.80$ Delware $= 125 \times £4.99 = £623.75 + £299 = £626.74$	[1] Calculation of cost
	Delware Resources is the best buy	[1] Correct answer with workings
3	Shop A $= 0.158$ p Shop B $= 0.158$ p	[1] Calculation of both A and B
	Shop C $= 0.099$ p per gram	[1] Calculation of shop C
	Shop D $= 0.1032$ p	[1] Calculation of shop D
	Shop C is the cheapest	[1] Correct answer with workings
4	Small area $= 16\pi$ Inches^2 Medium area $= 25\pi$ Inches^2 Large area $= 36\pi$ Inches^2	[1] Correct areas
	Cost per square inch We can cancel out the π and just divide by 16,25 and 36. Small $= \frac{799p}{16} = 49.94$ p Medium $= \frac{999p}{25} = 39.96$ p Large $= \frac{1299p}{36} = 36.08$ p	[1] Calculation of cost per unit or amount per £1 is acceptable [1] All 3 calculations correct
	Large Pizza is the best value	[1] Correct answer with workings

5(a)	Area of single $= 200\ \text{cm}^3$ Area of box $= 3200\ \text{cm}^3$	[1] Calculation of area
	Area of wall $= 40000\ \text{cm}^3$	[1] Calculation of area
	$\frac{40000}{200} = 200$ tiles $\frac{40000}{3200} = 12.5\ \text{boxes} = 13\ \text{full boxes}$	[1] Correct number of tiles required
	Single tile cost $200 \times £0.49 = £98$ Cost of the box of tiles $13 \times £7.99 = £103.87$	[1] Finding the cost of 200 tiles vs 13 boxes of tiles
	Supplier A is better value	[1] Correct answer with workings
5(b)	$12.5\ x\ £7.99 = £99.87$ No, Supplier A is still better value	[1] Correct statement with workings
6	Jack $4A + 5B + 9C = 8.96$ $(4 \times 1) + (5 \times 0.5) + (9 \times 0.750) = 13.25\ \text{litres}$	[1] Forming equation
	$\frac{8.96}{13.25} = £0.676\ \text{per litre}$	[1] Correct value per L or ml
	Sophie $8A + 10B = 8.92$ $(8 \times 1) + (10 \times 0.5) = 13\ \text{litres}$	[1] Forming equation
	$\frac{8.92}{13} = £0.686\ \text{per litre}$	[1] Correct value per L or ml
	Kabiria $9A + 9B + 5C = 11.77$ $(9 \times 1) + (9 \times 0.5) + (5 \times 0.750) = 17.25\ \text{litres}$ $\frac{11.77}{17.25} = £0.682\ \text{per litre}$	[1] Forming equation and correct value per L or ml. Only 1 mark due to repeat of same calculation methods.
	Jack bought the cheapest water per litre.	[1] Accept value per L or ml

END