Frequency Tables Mark Scheme			
1(a)	Most frequent shoe size is: size 5		[1]
1(b)	Median shoe size is average of the 20^{th} and 21^{st} data points which is: size 5		[1]
1(c)	$(3 \times 4) + (4 \times 7) + (5 \times 15) \dots = 201$		[1] Sum of the mid point of the groups multiplied by the frequency.
	$201 \div 40 = 5.025$		[1] divided by the total number of students
	Age (years)	Frequency	
2(a)	12	5	[1] For two correct values[1] Full marks requires all four values to be correct
	13	2	
	14	3	
	15	2	
2(b)	13		[1]
2(c)	$(12 \times 5) + (13 \times 2) + (14 \times 3) + (15 \times 2) = 158$		[1]
	$158 \div 12 = 13.2$		[1]
3(a)	Multiply the frequency by the number of times exercised, divided by the total number of students		[1]
	$145 \div 50 = 2.9$		[1]
3(b)	Median = 3		[1]
4(a)	$(0 \times 2) + (1 \times 4) + (2 \times 17) \dots = 76$		[1] Sum of the extra toppings multiplied by the frequency.
	$76 \div 35 = 2.17$		[1] Divided by the total number of students
4(b)	$910 \times \frac{4}{35} = 104$		[1]
4(c)	Assumes everyone in the school eats pizza		[1]
	The school follows the same distribution as the class		[1]
5	$(24 \times 18) + (25 \times 19) + (26 \times 19) + (27 \times 20)$ + $(28 \times 16) = 2337$		[1] Sum of the time taken multiplied by the frequency.
	$\frac{2337}{90} = 25.97$		[1] divided by the total number of students
6	3 + 8 + 12 + x + y = 40, $x + y = 17$		[1] Setting up algebra equation
	$(x + (2 \times 12) + (3y) + (4 \times 8) + (5 \times 3)) \div 40 = 2.9$ $x + 3y = 45$		[1] Setting up simultaneous equations
	Using the two simultaneous equations we find that $x = 3$ and $y = 14$		[1] Two correct answers

END